

ttgcatggag ccagtggaga agtgcctgag ggatgccaaag atggacaaga gcactatcca 60
 tgatgttgtg cttgttggtg gttccaccag aatccccaga gttcagcagc tgctgcagga 120
 cttcttcaac gggaaggagc tctgcaagag catcaaccct gatgaagctg ttgcctacgg 180
 tgctgccgtc caggctgcaa tcctcagcgg tgagggggaac gagaagggtgc aggaccttct 240
 cctcctggat gtcacccac tgtctcttgg tcttgagact gctggaggag tcatgactgt 300
 gctcatcacc aggaacacca ccatcccccac caagaaggag caggtcttct ccacctactc 360
 cgacaaccag cctggtgtgc tcatccaggt gtttgagggg gagaggacaa ggaccagggg 420
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<210> 4726
 <211> 416
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316033a09b1
 <400> 4726

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 tgcgggaaat ctgtagcatg tagagcaaat tggtaattgt ttgtattgtt ttgtacacaa 180
 tagattactt gtgattcttt tcgttnaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaggggggg ggccttttta ggggaccaa tttatcttgc 360
 cggggatggc gaggaaaaac tttttttttg gggcccctaa aatcaaattc atgggc 416

<210> 4727
 <211> 404
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 4727

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taatacagagt aaaaattggt aggtcataga tgtgcttcaa aatgtaattc tgagcgcata 120
tggtgcggga aatctgtagc atgtagagca aattggtaat tgtttgtatt gttttgtaca 180
caatagatta cttgtgattc ttttcgttna aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa gaaaaaaaaat aaaaaaaaaa aaaaataatt taaaaaaaaa 300
ataaaaaaaaa aaacatataa aataagaggg gggggccttt taaaaggtag caatttttct 360
tcccgggggt tgcacgaaaa aatttttttt ttggggcccc caaa 404

<210> 4728
<211> 203
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316033a12b1
<400> 4728

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aattgcgggc gctatttttc acttggaac ttatgtgagg aagctctgca cttcctgaat 120
gcaagctttc cacaagtatt atttcatatg tatattcaag tgttgcacta cgtattatgc 180
tctcttgcaa ttatccaatt gcc 203

<210> 4729
<211> 431
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316033b11b1
<400> 4729

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agagaagaca ctagctctag aattccagat cgattttctg ggagaatagc aactgctgca 120
caatctgcta gttcttcaca cagacctgcc agccaggagg gtcgttcagg aaataaatca 180
tactctgagg aggaattgag agagaaatct attgcaacca tccgggaata ttatagtgcg 240
aaagatgaaa aggaagttgc attgtgtatt gaggagttga atgctccgag cttctatcct 300
tctcttgat cactttgggt aaatgattcc tttgagagga aagatatgga aagagagttg 360

ttggcaaagc tctttgtcgg gctttacaat ggtggatata atttattgag caagcctcag 420
ctcattgagg g 431

<210> 4730
<211> 498
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033b12b1

<400> 4730

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gcctcaaggg cgtcggtac gagtatgtcg aagaggacct caagagcaag agcgagctgc 180
tcctcaagtc caaccccggtg ctccagaagg tgccggtgct gatccacgac ggcaagccca 240
tctgcgagtc gtcggtcatc ctgcaataca tcgacgaggc ttctgccggc gtcggctcct 300
cgctcctccc ggaggaaccc caccggccg cgttgctcg cttctggggc gcttacatcg 360
acggcacgct cgtgaaagca tcgtccgagg cgtccatggc caagacggag gaggagaagg 420
ccgaggggaa gaagcaggtg gcccgcgcgg tggagacctt ggagggggcc ctgagggact 480
gctctaacgg gaaaccct 498

<210> 4731
<211> 412
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033c02b1

<400> 4731

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ggaagcccct cgtgctgaat gtggtcaggc gcgccgagca gatgctgac caaaacgagt 120
cacgtgttaa ggagtacttg ccgatcactg gattggccga tttcaacaag ttgagtgcc 180
agcttatctt tgggtctgac agtcctgcta ttcaggagaa taggggtggct acagtacagt 240
gcttatcagg aactggttcc ttaagagtgg gaggtgaatt tcttgcaagg cactatcatg 300
aacgcactat ctacatcccc cagccaacct ggggggaatc acccaaaagt gttcacttta 360

gctggcctga cttgctagga gtaccggtac tatgatccct gcactcgtgg ac

412

<210> 4732
<211> 418
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316033c03b1

<400> 4732

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tgctatcgta cgctgtgata ttgtgtgaca tggatcatg ttattatata tctacctatc 120
taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa gggggggccc gttttaaaga accaaattta actaccccggt gattgcaaag 300
aaaaattttt tttatggggc aacaaaaata aaataaatgg gccggggtttt aaaaacgggg 360
gaatgggaaa aacctggggg tacccaaatt aaaaggcttg gaaaaaaatc cccttttc 418

<210> 4733
<211> 461
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033c04b1

<400> 4733

ttgaattcaa gaaagacatg gacgagcagt ggatgatggg gcagacttcc ctcagcctcg 60
gcctcaacgt cggccggccg acggcgcggc ggggtgcccc tccggtgacc aaggctctcg 120
tgaggagga cttcatgtcc tccaagaaga atcacgaggt cgaggcgctg gaggcggagc 180
tccggcgctg gggcgaggag aacaggaggc ttagcgacat gctccgcgcg ctggtggcca 240
agtactccga cctgcagggc agggtcagcg gcaagatggc ggcggtgacc gcggccaaaa 300
accgccagtc acccacgacg tctgagggcg gctccgcata ctcgccgtcc aggaagcgcg 360
ccgcagcga cagccccgac accgccgtcc aggaagcacg ccagccagc ggcggcttcg 420
ccgtcagcgt caacgtcggc cccgaccagg cggagtgcac g 461

<211> 491
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsro9316033d02b1

<400> 4736

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 aaggtggtgc cggggatgca gccgcagcac gtggccgtca agtacctgga cgccgagggc 120
 cccagggcc accgccagtg gctcgccgag gtcgtctacc tcggcatgca gctcagccac 180
 ccgcacctgg tgaagctcgt cggtactgc taccaggagc accaccgcat gctggtgtac 240
 gagtacatgg ccccgggcag cctcgagcac cacctcttca agaattctgt ggcgagcttg 300
 ccgtgggcca cgaggtgaa gatcgcggtg gggcgggcca aggggctggc gttcctgcac 360
 gagggcgaga cgccggtcat ctaccgggac ttcaaggcct ccaacatcct gctcgaatcg 420
 gtcagtgtc ctnaccatc cctaccaact ncggcgggca tatcatatcc cgttcatacc 480
 tncatacctt c 491

<210> 4737
 <211> 72
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316033d05b1

<400> 4737

atcacggtc cgccacgcg tccgccacg cgtcgccca cgcgtccgc cacgcgtccg 60
 tctagatcgc ga 72

<210> 4738
 <211> 420
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316033d09b1

<400> 4738

tcgtgctct cttcctttt tcttttcaa ctgagatcct tttcttaaac cctctcctcc 60
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tctctttgaa atgcaaaaacc gcccaatttt tcttcaattc tttttttctc ttccacttca 180
 ttttctcggc tgtctgggtc tgggtgcggc ttgtttgggc tgggtactgg ttcggatgga 240
 tcaacacagg actttgggaa agctacgggt gattaggggtg tattgggtgt gttttttgtt 300
 gcctttctgg gagggctttg aggggcgagg agatatgaaa actcttaggg ggtgaaggga 360
 aatggggaat gattgaggga tatgccttgg gcttcgttag agcggattca gatgtgtttt 420

<210> 4739
 <211> 440
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316033d10b1
 <400> 4739

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 cctcttgaaa tgcaaaaccg cccaattttt cttcaattct ttttttctct tccacttcat 180
 tttctcggct gtctggttct ggtgtcgggt tgtttgggct ggggtactgg tccgatggat 240
 caacacagga ctttgggaaa gctacgggtg attaggggtg attgggtgtg ttttttgttg 300
 tcttctggg agggctttga ggggcgagga gatatgaaaa ccttttgggg gtgaaggga 360
 atggggaatg attgagggtc atgccatggg ctcgtttagag cggtttcaga tgtgtagtcc 420
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<210> 4740
 <211> 499
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316033d11b1
 <400> 4740

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 tgagcattca ggcactgctg agcgccccaa acccagatga tctctctca gaaaacgtcg 120
 caaaacactg gaaatccaat gaagctgaag ctgttgagac agcgaaggaa tggac:cgta 180

tgtatgccag tggcgcatga caagctaacy ctgttatgga tgtaataaca ctgtgtcata 240
 gttgggccta atcgaaaacc atttgcttga taaaaacaca cttgaaatga tttgcgatgg 300
 acgaatgtat ccagagcggc atcatttctt gttggtgggt gtatttgtgg tgcgtgttct 360
 ggcacgcttc ataacttgct gcttatagaa cacgctctgt ttctcgttca tcctcaattg 420
 tttctccaat taaaaatata tgttgatgac cggtatgtaa gctcttcaaa tgaaatagtg 480
 gctctctgta ttntcccc 499

<210> 4741
 <211> 466
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316033e01b1

<400> 4741

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 cagcaggtgt gcacgccgca gatcgtgcac cgggacatca agtcgagcaa catcctgctg 120
 gacgagtcgg gcgaggcgcg ggtggcggac ttcgggctgg cgcggctgat cctgccggac 180
 cggacgcacg tgacgacgga gctggtgggc acgctggggt acatcccgcc ggagta.cggg 240
 caggggtggg tggcgacgct gcggggcgac gtgtacagct tcgtggtgct gctggagctg 300
 ctcaccggga ggcggcccggt ggagatgatg gcggcgcgcg ggcagccgag ggacct.cgtc 360
 ggggtgggtga cgcagatgcg gtcggcgggg aggcacgcgg aggcgctgga cccgcggctg 420
 aggcagggga gctcgcttgg cgacgaggcg cagatgctgt acgtgc 466

<210> 4742
 <211> 496
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316033e12b1

<400> 4742

ttttaatctt acggatcaag gtgcgtcaag ccaccgatca tctatggtga tgtgagccgc 60
 cccaacccca tgaccgtctt ctggtccaag atggcgcgaga gcatgactgc tcgccccaatg 120
 aagggtatgc tgacaggccc tgtcacaatc cttaactggt cttttgtcag aaatgaccaa 180

CCAGAGCGGC

ccgagggtttg agacttgcta ccagattgct cttgcaatca agaaggaggt cgaggacctt 240
gaggctggtg gtattcaggt tatccaaatc gatgaggctg ctttgagaga gggctctgcca 300
ctccgcaagt cggagcatgc tttctacttg gactgggccg tgcactcctt caggatcacc 360
aactgcggtg tccaggacac caccagatc cacaccaca tgtgctactc caacttcaac 420
gacatcatcc agtccatcat caacatggac gccgatgtga tcaccatcga gaactcgcgg 480
tccgacgaga agcttc 496

<210> 4743
<211> 88
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033f01b1

<400> 4743

ctgacgcgtg ggaaaaaaaa aaaaaaaaaa aagaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaa aaaataaggg aggaggtt 88

<210> 4744
<211> 97
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033f02b1

<400> 4744

gtgccccgtg ggaaaaaaaa aaaaaaaaaa aagagaaaaa attaaaaaaaa aaaaaaaaaa 60
aaaacaaaac aaagaaaggg ggtaggatat taatgag 97

<210> 4745
<211> 511
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316033f03b1

<400> 4745

tctacgcgtc cgccacgcg tccggggccg caagctttaa catcattccc agcagcactg 60
gtgctgccaa ggctgttggc aaggttcttc ctgagctgaa tggcaagctt accggtatgt 120

ctttccgggt tccactgtg gatgtgtcag ttgttgatct cactgttaga accgagaagg 180
 ctgcatcata cgatgacatc aagaaggcta tcaaggctgc atctgagga aaactcaagg 240
 ggatcatggg ttatgtcgag gaagatttgg tctccactga ctttgtcggg gacagcagg 300
 cgagcatctt tgatgccaaag gctggaattg ctctgaacga ccatttcgtc aagctcgtct 360
 cgtggtacga caacgagtgg ggttacagca accgcgttgt cgatctgac cgccacatgg 420
 ccaagactca gtagagcgtt ctgatttcct ttggtcagag gtgtccctgc tttgtctatg 480
 cgaagaataa atgtngatgg tgtcgccaga c 511

<210> 4746
 <211> 468
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316033f09b1
 <400> 4746

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 ggagatcctg ctgcctatca tccgtccgccc gctcgggtgc ttctccact acggctgctg 180
 cagcatggag ttctgcatct gctgtgtgct caccatcctg ggctacatcc ccggcatcat 240
 ctacgcgggc tacgtgcttg tcgcgctcgg ctcgaggag cgggatcggg actacgacac 300
 ccttgcttaa taatcctgca gcaactcgta ttgtgtgatg aacctctcgc ctggtagttg 360
 cgaatcgacg tcgtgtgttc ccatctggac tgtgtagcgt gccttctttc tgtcacctg 420
 taaatgctta aaccatcctc cccttcgctt tcgcgctcct gtaattct 468

<210> 4747
 <211> 502
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316033f10b1
 <400> 4747

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 ttcgatccga tcagatccga gatctccatc cccgatggcg tcccggagct gcaccttct 120

ggagatcctg ctcccatca tctgcccgc gctcgggtgc ttcctccact acggctgctg 180
 cagcatggag ttctgcatct gctgctgct caccatcctg ggctacatcc ccggcatcat 240
 ctacgcggtc tacgtgcttg tcgcgctcgg ctcgaggag cgggatcggg actacgacac 300
 ccttgcttaa taatcctgca gcaactcgta ttgtgtgatg aacctctcgc ctggtagttg 360
 cgaatcgacg tcgtgtgttc ccatctggac tgtgtagcgt gccttctttc tgtcagcctg 420
 taaatgctta aaccatcctc cccttcgctt tcgccgtcct ggaattctga tacgaccgga 480
 tatatttcag cagcttcgaa ga 502

<210> 4748
 <211> 242
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316033f12b1
 <400> 4748

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 agaaataaga aagacaaact cttgtgttga caatccggaa ttggctgaat tgtgtctacc 120
 ctgttttcac atcaatgata tatgtgagcc gattgaaaaa aaaaaaaaaa taaacaatat 180
 acaagagtaa aacaaaagaa ccaaaaaata aaacaaaaaa aaaaaaaaat aaaaaaaacc 240
 ag 242

<210> 4749
 <211> 431
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316033g01b1
 <400> 4749

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 aacatcggcg cagaacggtg tcaaccacaa cagactggag cttagcctag cgtctgctt 180
 tggcgccctt gtggccacta ttttactgca agtctagtcc accttagttt gtcaaattat 240
 ccagggtttg aggagagctg attggaacag tgaaccgcgg agtttttctg cgtgcttggt 300

catcgcatca gagcattgta actggttagct attagtgtaa tttgctgtaa gccacagaat 360
gatagtgaat gcaacactga ctctaattta ttactattat gccttttgta tagcgagtag 420
tgaaggttca t 431

<210> 4750
<211> 493
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316033g02b1
<400> 4750

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ggttcatggc cctgggccta cegttactga cgcgcgtgac gaccgctacc gacgcagcaa 120
agatgccggc cgaggagctg cgccacggcc cegtcggcgc cttctcctgg ctccgcatcg 180
ccttcctcac cgtcaactcg gccatggcga tccacaggtc caaaggcgac ccgtccgagg 240
tcgggttcgt ggccttctcc tacctcgacc tcgtactgct cttctacttc cataggaggt 300
tcgagagcgc cgcgcccggc tcaccggcga gacggaggct caagggtggc gtctgggtcc 360
tcaccacat gctcacggcc gttctaagct ataagggtggc ggctatcatg ccgtgccag 420
ggcagatcct cgtttgggccc atggccggcg ccgccacagc aggaggattc tacgccttct 480
tcctgttccg gga 493

<210> 4751
<211> 344
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316033g03b1
<400> 4751

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ggcggagaag ctgcacaaga tctaggaagg ggcctcccta cggtcggcag aacataaggt 120
cccaaataca atctgcgcta cctcgtcatc gtgcgtcttt gctgcattat cctttcatca 180
tggttggttc tgcaatccta gttgttgggc aatcgtgatg catggcacac gcgccacggc 240
ggcagcccca ggtccgaacg gtctccttgt tggctatggt gtgtaagctt tatttatggt 300

cgctctctctg cgcggcggaa cggtaacggt attgtggctt tcgc

344

<210> 4752
<211> 382
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316033g07b1

<400> 4752

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gtactgcttg tttacttggc attcataacc cctgtcgtgt acgacttcta caactacgag 120
atggagctcc agcaatttgc caagctcttc accatgtttt cacagaacct ggccctcttc 180
ggcgcgctgc tcttcttcct gggaatgaag aactccatcc caaggaggca ctccaagaga 240
aggaccgcaa aggctaagac aacctgaagc cagtaagggg attgtgatag gaggggaagc 300
tatcaatatg gaaactcgtc gtgttttacg catacttttg gagcagtaca tgtncgcgtt 360
tttgcccata ggattcgtga gc 382

<210> 4753
<211> 424
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033g08b1

<400> 4753

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gctggtgatg gtcagcatgg cggctcgtgat gactgccgac ggccagggtg ccggcagcga 120
gttcggcaaa gcggccgaag gagccgggac aggcgccgcc accgctgctg agggcgcggg 180
agccgccgtg aagtcggcgg cccaggggagc aggccaggca gctagtggcg ccggcgaagg 240
tgctggtaaa tcttactccg gcggcgggcg tcgttgagcc tgccgtgtac cgcgggatcg 300
tcgccgccgt ggctgaggaa tgatacccaa coatgccact gcgaataata aaaatcaagc 360
tgcttaatta gcatgctgtc aactgaaacc atgttaacat gccgctcgat gtatgacacg 420
ctta 424

<210> 4754
 <211> 235
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316033h01b1

<400> 4754

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 atcgttgagg tctaccgcga catcacgcgc actgttggtg accttccaag gctcatggac 180
 agagttcttc gtgcccctga agaaagagcg cgtgaagtat cgatcttggt gacct 235

<210> 4755
 <211> 453
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316033h02b1

<400> 4755

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 tcgtcgaggc ctaccgcac atcaagtgca ctgttctgga ccttccaaag gtcattcgaca 180
 aagttcttct tcccgtgaa gaaggagcgg tgaagtatgt ttctggtgac ctgttccacg 240
 tcgtcccacc tgctcaagcc gtgttgctca agcttggtct gcacttctgg agcgacgagg 300
 attgcatcaa gatcctcgca caatgcaaga aggccgttcc tccccgagac gcgggagggg 360
 aagtcacgt catagacatt gtgcttggtc cggtttctgc agggccaatg ctggaaaccc 420
 agcacctcat ggatatgctc atgctcgtga tga 453

<210> 4756
 <211> 348
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316033h04b1

<400> 4756

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gaaccgccag ccggttctac tctatatga agacttaagg catctatatt gccgcccgt 120
tgttgaaccg gtttcttgct tgatgcaagt tgtgttgca cctgggttatt atgctgctgc 180
tgtaccagca tatcagtatg gtttgtctaa gatgttgccg actaaataaa aatccgtatc 240
gtttggctga aaaaaataaa aaacgtcact atacgaaata aaaaaaaaaa aaaaaaaaaa 300
aataaaaaaa atacaaaaaa aaaaaaaaaa aaaaaataga gagaacgg 348

<210> 4757
<211> 95
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033h06b1

<400> 4757
tcacgcgtcc gccacgcgt ccggtatatt gtctcatgt gaggcgtcgt gttgtaaatt 60
tccatatata atgtgatgta aaacttcttg gctcc 95

<210> 4758
<211> 478
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033h08b1

<400> 4758
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gcccgatcta agtcaagatg agtcgtggcg ggagtgtgg aggtgggtcaa agttctctgg 120
gttacctgtt tggagatggt gagcctgcaa agcctgctgc agcaccagct gcgaagccag 180
cacctgctga gaaaccagca ctggcagctg ccgatgtaac caagcagatt ccagctggca 240
ttccaggtag ccgggcgaac aactactacc gtgcagatgg ccagaacacg ggcaacttcc 300
ttacggaccg tcttcaacc aaggttcatg ctgctcccg cgagggtcgc tccctgggct 360
acttgattgg cggaagtga tctctgttaa tgatgctgcg atgaattggc ctgtaactct 420
gctatccatg tgggtgaaaac tggaagtgtt tggtttcagc agtttaccac ctgcgctcg 478

<210> 4759

<211> 455
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316033h11b1

<400> 4759

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ctagcgctcc ggcgatccat cttccacctt gagccgctcc tccgcgagct gcacgcgcgc 120
tacggccccg tcatctccat ccgcctcttc cgcgccctcg tcttcgtctc cgaccgcgcg 180
ctcgcccacc gcgttctcgt ccagggcggc gccacctttg ccgaccgccc gaggtctctc 240
gagccggggc tctctttcac ctccggctcc cgcaacatca acgcgcgcgc ctacgggcct 300
tactggcgcc ttgtccgcgc caacctcgcc tccgagcggc tgcacccggc ctgcgtcagc 360
cagttcgcgc ccgccaggcg ccggatgcgc gacgtgctcg tacgcgacct cagcgcgcgc 420
ggcgccggcg gcgaccccggt cgaggtgagg acgcc 455
  
```

<210> 4760
 <211> 337
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316034a01b1

<400> 4760

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taacgacatc ctgtggtgtg gtgtatcatt ccctttgtgc ggattcttca aatttctcgc 60
ttcaagtaga aactgcacgt ggatgattgc tattcgatgt ttgcttgtgg tgtggtgaag 120
tcaataatat ctcatcataa gaaataagca cacatgtttg cttaaaaaaa atacaataag 180
aaaaagaaca aaaaaaccga taaaaaaaaa tggcgggggac taaaaaaaaa aaaaaagctt 240
cttgcggggag agctcaaaaa aaaagctttt ttatatacgag gcctaaaatt aacactggcc 300
ggcgttttac aacaccgtaa ctgagaaaaa accgggg 337
  
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<210> 4761
 <211> 251
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316034a03b1

<400> 4761

tgttggagaa gcgcgcggag catcagaaac atcatccctc cttgccttgt tcttttatct 60

cttcctaata gtttgttggg cgaatttata ggattcttaa tcgacagatc aggaatcacc 120

tccccattca gctaagctgc atgtcttttg cttatatttt gtcctttctt gtacttacat 180

ctcatgctgt gtggatttcc tatggctcaa gtttgttgct gcgctcaggt ttcagcaatt 240

gctgcacctg c 251

<210> 4762

<211> 391

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034a07b1

<400> 4762

tctagagaag agagctagta tgttttagt agtaatttgt acaaagaaaa ttaagaaaaa 60

aaatctataa catcgatct tgcccaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa.aaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggggggg gcctttttaa agaacc.aaag 240

tttactcccg ggggaaggca aaaaaaaaat tttttaatag ggaaacaaaa aaaaaa.taaa 300

tgggcggtgt ttaaaaacgg gggaaaggga aaaacccggg ggtaaccaa ataatcgct 360

tggaaaaaaa tccccttttg gcaaggtgga g 391

<210> 4763

<211> 277

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034a08b1

<400> 4763

tctcttgat gtaatctcat cagtactcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaagaaaa aaacaaaaa agaaaaaaaa aaagacaaaa 120

aaaacaaaa aaataaaaa gaaaaaaagg ggggcgaatg aagaacagtt tgtgcgcctt 180

cgttcgctgg gggaagaact gaacaatgct ggggggcccc cggggactaa agaagtactg 240

gatctttcaa acgcaaaaaa aaaaaaaaaa attggga

277

<210> 4764
<211> 436
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034b01b1

<400> 4764

tttacgcgtc cgcccacgcg tccggggaag agggctgtca gctttcatgg ccagcaggag 60
tccctaaaca tcgcgggata tgcattggcaa caatggaacg aagacaaggg cgaggaaatg 120
atcgatccgt tgataaaacc gtcgtgctcg attcgacagg tcttgagggtg catccacatt 180
gcattgctat gcgtgcaaga tcatgcccaa gagcgtccgg acgtgccggc ggtcatcctg 240
atgttgagca gcgacagctc cagccttccc atgccgaggg cgcccaccct gatgctccgt 300
ggccgtgctc ttgagtcgag caaatcaagc gagaacgaga ggagccactc cattggcacc 360
gtatcaatga cacagttgca tggaagatag catggcaggg gcagtatata ctgaagatat 420
catgtctttc tttttc 436

<210> 4765
<211> 287
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034b07b1

<400> 4765

tctaccacgc gtccgagaaa ctcttccgag atttatattat tcgtgaaggg taccagtctg 60
atcatatatt tgactggact gtgtcgaggc acttagcaga gaataacaga ttgcgaccac 120
gtggaaggac agctgggttg gtgggaccat ctgcagaacg ggctgaacgg attgcagcaa 180
gacaggatgg tctgataga ttctgtagtt cagtggaaac atttgccaga agaactggct 240
ctggttctgg ccatcaaaaa aagagcttga tgacacgagg gctaaaaa 287

<210> 4766
<211> 368
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsro9316034b11b1

<400> 4766

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ttttgctttc ttttagtgaa ttattttgaa ttaatcctgt aattcgtagt ggttttgta 60
ctgtaatttc tataatcttat cagtgtgaatt ataattttgc aaatgctagt gggatttgta 120
gcacgccatc actgtaaadc ctagcggttc tttatcagtg ttatattcct tgtaatccta 180
gtgggttattt tactgtgatg tatttgcaac tgattgttga tgttatttca tttttaaaaa 240
acnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnacnnn nnnnnnaaaaa aaaaaaaaaa 300
aaaaaataaa aaaaaaaaaa actaaaaaaaa accctnaaaa aaaccaaaaa aaaaaaaggg 360
gcggccct 368
  
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<210> 4767
 <211> 235
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsro9316034c01b1

<400> 4767

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ngtcccacgc gtccggaagc tatcaacctt gtgggtgctt ttaattttgt ggcattatca 60
gataaaaacc agatggagtt cctgaaaaat tctctggatt tcattgtcga tactgectct 120
ggtgaccacc catttgacc ttatctcgag cttctgaaag ttcgtggcac actggcacta 180
gttggttttt ctggcgaaat cagagtgcac cctgtaacac ttaaatttgg gtgca 235
  
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<210> 4768
 <211> 81
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316034c04b1

<400> 4768

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tttacgcgtc cggactagtt ctagatcgcg agccgacgtc ctttacattt tattggtaga 60
gctgagttgt gatatagaga a 81
  
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<210> 4769

<211> 266
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034c05b1

<400> 4769

agacgtggag gcccccgagg aaacgggggg ggaggggggc aatttacagc ggggccccgg 60
gaggtcccc agtgaccgc gagagcgggg ccgcacacac agagggacaa ctaggtcgac 120
cagagccagt ggttgcggtc aaaacatccc cgacctgaca agaactgcgt gccactcgcc 180
agagttgcgg agagcaccgg aggatccatg gcacgttgct gatggcaata aaggagcaac 240
agctgcgcgg ggcggaagaa caaaaa 266

<210> 4770
<211> 256
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034c06b1

<400> 4770

ttcagctttc cccccaccac tgggtggggg tttgggagct gacccttag gaaaacaatt 60
cttcgcttga ttgctagata cgtgatgaga cggacctgtt taaggggccc atccatctct 120
gaagctgaca cactctaagt cggtgatttg tctgcgattt gaagacgtcg tagctgcac 180
tgctctgggt aatttcagtg catttgccggc tgtttttatt gcggaaaaaa caccaccaag 240
ggggccacgt aggtgc 256

<210> 4771
<211> 367
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034c07b1

<400> 4771

tctttccacg cgtccggaag ctatcaacct tcttggtgca gataattttg tggatcatc 60
agataaaaac cagatggagt tcctgaaaaa ttctctggat ttcattgtcg atactgcctc 120
tggtgaccac ccatttgacc cttatctcgc gcttctgaaa gttcgtggca caatggcact 180

agttggcttt cctggcgaaa tcagagtgca tcctgcaaca cttaatctgg gtgcacggac 240
tctatctggc agtgtagttg gaggcacaaa ggatacccag gagatgataa atttctgcgc 300
ggcaaacaga atatacccaa atgttgaggt gataaaaata gactacatca acgaggtctt 360
cgagagg 367

<210> 4772
<211> 324
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316034c08b1
<400> 4772

ttgtgggggtt ggcttctcct ccccttccgg ttcgggttct ggttcgggtc ggggtccgaga 60
gtagctagcc tagtctaggg ttccgtagt tcggagagga gagaaaggga gagatccatg 120
gcggagacgg agtaccgctg ctctgtgggc gggctcgctt gggccaccga cgaccacaac 180
ctccagcagg ccttcagcca gtacggcgag atcctcgacg ccaagatcat caacgaccgc 240
gagacgggca ggtcccgtag ctctgggttc gtcacgttcg gcagcgaggg agtcgatgcg 300
ccaggccatc gaagagatga acgg 324

<210> 4773
<211> 331
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316034c10b1
<400> 4773

cccacgcgtc cgcccacgag tccgatggaa catatctcat gccgagtggc tcgggggttcc 60
gctgaagggtg tacgcggacc ggttggtcgt gatcgtcgcg cgccatcatc attttgtgca 120
agggtcaaccg gttcgacttc caggagctca ccgtggatct tgtcaaggga caacaccgag 180
caccagagtt caccaaaatc aaccccatgg cgcagggtccc aacaatcgac gatggaagat 240
tcaaactctt tgaaagtcac gccattctta ggaatctcgc cccggtcttg cccggcggtt 300
cacattactg gtattcagcc gacttattta c 331

<210> 4774

<211> 393
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsro9316034c12b1

<400> 4774

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tgttccactc tgetcaacca agcagatcca agcagcagca gagcgccgga gggacgccag 60
gatgcacgcc aagacggact cggaggtgac gagcctggct ccattctccc cagcgcgctc 120
cccgcgcgcg gcggccaaca acaaccccaa ctccggcggg ggcgggtgggg tgatgcgcgg 180
ctcgggtgtac tacgtgcaga gcccgctcgcg ggactcgcac gacggcgaga ccaccaccaa 240
ggggggccacg ttgggtgact ccacgccgcg gctcagcccc atggggcgtnc ccccgccact 300
cccaattctt cgggtgggcg naattcttct tccagccgtt tttccgcggg ggggtgccac 360
cacaaggaca agtcggcggg gcgcaagggc gcg 393
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<210> 4775
 <211> 471
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsro9316034d05b1

<400> 4775

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tttcaaattc ccaaccccgga ctgacgacga gtggatctgt tccggcgctt cctgccgcgcg 60
tcgaccatgg cgtcttccaa ctccggcggc atccccatca aggcggaaca ggattcggat 120
ggctcggccc agagcacagc tgatatgact gcttttgtgc aaaatcttct agttcagatg 180
caaaccaggt tccaaactat gtcagagAAC atcattacaa agatagatga aatgggtgca 240
agaatcgatg aattggagct gagcatcaat gacctcaagg ctgaaatggg cagcgatggg 300
atgaccctta ctaagtgaag gacgaagaat caaagccagc agacagctct gcctgattta 360
agagaagtag cagagcaagt cgattagtct tggttccatg tcaatatcat cagccattca 420
tcactaactt aatgcatgta tgagatgnta ttcgcactgg tatatgcatt t 471
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<210> 4776
 <211> 253
 <212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsro9316034d07b1

<400> 4776

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gggtggtgctg cgagcaaagc tcgcgagtgg gaccggagag tgcgagagga gctcacacga 120
ccgcattgct ctacgcattg ccccgcgcat ttgggcaggc gacgaggcac actatgctcc 180
ctcaagcatc tgctgttttg tggagcacac agataggtaa gagtcccagc tgcttgctcg 240
ctcagcatgc tgt 253
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<210> 4777

<211> 275

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsro9316034d10b1

<400> 4777

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caaagatgcc ggccgaggag ctgcgccacg gccccgtcgg cgccttctcc tggctcggca 120
tcgccttctc caccgtcaac tcggccatgg cgatccacag gtccaaaggc gaccggtccg 180
cggtcggctt cgtggccttc tcctacctcg acctcgtact gctcttctac ttccatagga 240
ggttcgagag cgccgcgccc ggctcaccgg cgaga 275
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<210> 4778

<211> 387

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316034d12b1

<400> 4778

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atcatgggtg ttgggctgat ttttatcaac ctatgcacct gcatgccaaag aaatgtggcg 120
aaccatgaat ctcacgatac agtgggtgcc cagaaggaaa tgcgcagtct gatgtctggc 180
actgctggaa ggaaccggcc tccgagcaat gatcaccagt gccacttgg aacctacct 240
```

aattgccaaag ggatgtccca gaatactcaa gaagcagctc aagatgttgg aggaaactaa 300
 ggcaaaactaa gggattatga gacggaatga atccccaggt ttatattgct ttacttnca 360
 cgacggagtc atttggcatg aaatatg 387

<210> 4779
 <211> 274
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316034e01b1
 <400> 4779

tttcagatct tcgtcaagac cctcaccggc aagaccatca cgcttgaggt ggagtcacat 60
 gacaccatcg acaatgtcaa ggccacgac caggacaagg agggcatccc cccggaccag 120
 caacgcctta tctttgctgg caagcagctg gaggatggtc gcacccttgc tgactacaac 180
 atccagaagg agtccaccct tcaccttgtc ctccgtctta ggggaggcat gcagatcttc 240
 gtcaagaccc tcaccggcaa gaccatcacg cttg 274

<210> 4780
 <211> 281
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316034e02b1
 <400> 4780

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 ccaagccgcc tctccttgt caggctgcta atgagtctcg tgggtgttgt ccacctccc 120
 gtggaggata tgggcgcggt gaacgtggct caggcagagg tggacgagga gggatatggc 180
 agaatcgca ctacggcagt gaagacacaa atggctacag gggagggttat ggtgccagaa 240
 ctggagggtga ggaaggcgcc caggatagag agagggcccc t 281

<210> 4781
 <211> 327
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316034e06b1

<400> 4781

tgtaattttc tgaggggattc aaaccctgt acatcaggac aaaggggaata agactatggg 60
agattgggaa gcaccccggtt gtcacctttg gttagaatat gcttatgtgc aagcttagat 120
gcaaaaaagc cgcacctcga gtctcttttg tagtcgaccc tttccctagt tgactgtcga 180
tgaaccgttg tcatttatga gtccgatgaa ccgttgtctt tatcttttga caatttttat 240
gtcgttgcta ccattttcga atgtgaacag catggatctg tgtccagttt gctttaatct 300
gtgcactcga ttgttttttc cctctta 327

<210> 4782

<211> 438

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034e07b1

<400> 4782

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accatggcgg acgtcgacgt tgacacggag gtggccgtcg gcgcgcagcc gaagaagagg 120
acgttcgcga agttcagcta tcgcggcggtg gatctcgatg ccctcctcga catgttcacc 180
gacgaccttg tccagatgtt ccccgctcgc gccgcagaa ggttcaagag ggggtctcaag 240
aggaagccca tggcgctcgt caagaagctg cgcaaggcga aaaaggacgc tctgtctggt 300
gagaagcctg agccagtgag gacacatctt cgtaacatga tcattgtccc tgagatgatt 360
ggcagcctta tcggtgtcta caatggcaag acctttaacc aggttgagat taagcctgag 420
atgattggcc attacctt 438

<210> 4783

<211> 426

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034e08b1

<400> 4783

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accatggcgg acgtcgacgt tgacacggag gtggccgccg gcgcgcagcc gaagaagagg 120

acgttccgca agttcagcta tcgcggcgtg gatctcgatg ccttcctcga catgtccacc 180
gacgaccttg tccagatggt ccccgctcgc gcccgagaa ggttcaagag gggcttcaag 240
aggaagccca tggcgctcgt caagaagctg cgcaaggcga aaaaggacgc tctgtcgggt 300
gagaagcctg agccagttag gacacatctt cgtaacatga tcattgtccc tgagatgatt 360
ggcagcctta ttcggtgtct acaatggcaa gaccttcacc aggttgagat aagcctgaga 420
tgattg 426

<210> 4784
<211> 395
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316034e09b1
<400> 4784

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ggttgtgaaa ttgacaatga gaagatggaa ctcatgctgt cccaagtga gggcaaggac 120
atcaccgagc tcttggtcgc tggtagggag aagtttgctg cggttccatc tgggtggtgt 180
gggtgtggctg tttcagctgc tgccctgct gctggagggt ctgctgcccc tgcagctgag 240
tcaaagaaag aagagaaggt cgtggagaag gaagagagt atgatgacat gggcttcagt 300
ctgttcgact aagttgtggg gcatcttggt tctgaagtat ctatacttgg ccaggaaact 360
agagtcaatg atgttttagc ccttatttag ctgag 395

<210> 4785
<211> 489
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: uC-tsro9316034e11b1
<400> 4785

tctcccgacg ctcaagcccc cagacgccgc agcgccgcca ctccaccgc agcggcaacc 60
atggcggtcg gcaagaacaa gcgcatctcc aaggggagga agggtagcaa aaagaaggcc 120
gtcgatccgt tcaccaagaa gcagtggat gacatcaagg cgccgctgct gttcaccagc 180

cgcaacgtcg gcaagaccct cgtgtccagg acacagggta ccaagattgc ctcagagggg 240
ctgaagcaca ggggtgttcga agtatctcta gctgatcttc agaacgatga ggaccaggcc 300
tacaggaaga tcagactccg tgctgaggat gtgcaaggga tgaatgtcct cacaaacttc 360
tggggcatgg acttcaccac tgacaagctc aggtctcttg tgaggaagtg gcagacactc 420
attgaggctc agtggatgtg aagaccactg acaactacat ngctcgcatg ttcaccattg 480
gcttcacga 489

<210> 4786
<211> 487
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034f01b1

<400> 4786
actgtcacct accccgattc cccttcccct gtgcgatcga tactctctag ggttcacatcg 60
cggtcacacc aagcaaggat gactacttca aggcgtcttg ctgacaggaa gagtgcgaag 120
tttcagaaga acgtcacaaa gaggggctca gtgcctgaaa ctactgtgaa gaaggggaat 180
gactatcctg ttggacctat cgcgcttgga ttcttcatct ttgaggacat aggatcatcc 240
ttgtttcaga ttatcaggac ggatactagt ggtgggacgg cttaatatca agctgaaaac 300
aagacgatca ttatcagaga tttattttat ccatgtgtct gggacgcaat atcatatctg 360
taccctgtag caaacttcaa ccctgatgat gttatgtaga gatttaaatac ttgtgcagtg 420
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<210> 4787
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<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034f04b1

<400> 4787
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aacaaaataa ttatgccaca atttgatcaa ttttcatttt ttaatcaagt ttcattggtt 120

cttttttttt ttataaattt ttattttttt attacttatt tttttttacc aaaagtttgt 180
 tacaacttaa aatttagaaa aaaaaaaata atagttaata ataata 225

<210> 4788
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 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316034f09b1
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 ggaggaagaa gcgaaagtat gagctcggcc gccagccagc caacactaag ctttcaagca 180
 acaagacagt gaggaggggc cgtgttcgcg gaggtaacgt gaagtggagg gctctcgcgc 240
 ttgacactgg taactttctca tggggtagtg agtgctgtga cccgcaagac ccgtctctgg 300
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<210> 4789
 <211> 388
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 4789

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 cacgcacgac tggaccgagt gccccttcgc ccaccgggc gagaacgcgc gccgcgcga 180
 cccgcgcgcg gtgccctact cctgcgtccc ctgcccggac ttccgccgcg accgcaggc 240
 atgccgcaag gggcgacgcc tgcgagtacg cgcacggcgt cttcgagtca tggctccacc 300
 cggcgcaata ccgcaccagg ctctgcagga cgaggtccga tgccccgcc ggatctgctt 360
 tttcgcgcac ggcgccgnca gctcgggg 388

<210> 4790
 <211> 301

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316034g01b1

 <400> 4790

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 tctccgacgt gctcatgagc gggcccgtct gccatggagc ccgcccaggg atcgggtggtg 180
 gagctctcga tcctaactgt ccgacggata cagtgccgcc tggtgacccc tacaccggtc 240
 gtctgtgcag cagcttgtac aggtgctcac caagtgatca gacctgatac ctcgagaaac 300
 a 301

<210> 4791
 <211> 435
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316034g04b1

 <400> 4791

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 ctaggcatcg ccacgtcgc ctttgggatac taccttgtcg gggaggccgc ctacaaccgt 180
 ctataccgac ccgccggaga caaccaccac tagatcttcc ccagaggtaa agtagatgga 240
 gcaaactgta ccgaagcacc aatgttgatc ttttccggat tgatctcata acgcctgcat 300
 gaccaccttg taattcgga tcaggagacg tgctgggtgt tcaactaggg ttccctggaac 360
 gcgtgttctt taaatctgat actattttga gggatatactt ggcactctgga catggcattg 420
 attatatttt ttttg 435

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 <211> 462
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316034g05b1

 <400> 4792

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 ggtccatgag cgtgcgccgc gtcttgggcg cgctctccga cgtccccgtc ggcaccgacg 180
 acgactctcc tttgccttcg tcggcttctt cgtggctcgtc gcgccgctgg ggtagccgca 240
 aagaggattg agcagcttgg agtcagcggc tggttagttc tgacaccaa tgggtagata 300
 ctagcgagct tgataattct gttctgaact gtctggggtt tgttatcggg gtttgaccgt 360
 ttgagattta agaatggat ttgttaaaaa aactcaacat gtaaatacagg ttgggtgggg 420
 ccttgtagat atgttcattg atttgatcgg gatgatgaat ta 462

<210> 4793
 <211> 321
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316034g12b1
 <400> 4793

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 cagcgacgac tggaccgaga gccccttcgc ccaccgggc gagaacgagc gccagttcga 180
 tccgcgccga gtgacatact cctgcgtgcc atgcccgac ttctgccaaa accaataggc 240
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<210> 4794
 <211> 154
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316034h02b1
 <400> 4794

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 ggccagcctt acatcaagtc gtgaacggtc actgagcaaa tttgtctcct tgttttggcc 120
 acttttttct ttccgtaaat ttggaattat ttcc 154

<210> 4795
 <211> 349
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316034h03b1

 <400> 4795

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 aagctgcggc tgccggtcaa actgcaactg cggcaagatg taccctgact tggaggagaa 120
 gagcggcgcc accgtgcagg ccaccgccgt cgttcttggc gtcgggcctg cgacggtgca 180
 gttecgaggag gccgccgagt ccggtgaggc cgcccatggc tgcagctgcg gcgccagctg 240
 caagtgcgac ccttgcaact gctaaggtgc aagcggtcga tgcgcttggtg gtgattgtgc 300
 cgtgtgtgat cgagtgcgaa taatgaaacc ggccctggcc gtctgggtg 349

<210> 4796
 <211> 64
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316034h04b1

 <400> 4796

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 cgac 64

<210> 4797
 <211> 138
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316034h06b1

 <400> 4797

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 tccaccaccc aaggggatca aggtttgtag aatattgttg tttgttcaaa ggctataata 120
 aaaagtgttt ctctttttt 138

<210> 4798
 <211> 385
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316034h11b1

 <400> 4798

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caggccacga tgcagccaac gaccaagagt gacgtgtaca gctttggagt ggtgctgctg   180
gagctagtca ccgggaaacc agccattctt tcggaccag agcccacaag catcgtccaa   240
tgggcaaggc agcggctggc gcgcggcaac atggagggca gtggtggacg cgccaatgca   300
gggtggttat gatatcaagg ncgtgtggaa ggtggcggat attgcactca aatgcaccgc   360
aaggggtcaa cacatcggcc cacca                                     385
  
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<210> 4799
 <211> 317
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316039a01b1

 <400> 4799

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gaaagccatt ctgaataaac tgaccccaaa aaactttgac atgctttttg aacaagtga   120
agaggcgaac attgacaatg tgtcaactct tactgggggtg atttcacaga tatttcacaa   180
agcattgatg gaaccaactt tctgtgaaat gtacgccaac tactgatccc atttgtctgg   240
tgcactgtca gacttttagtg aggacaatga aatgattaca ttcattgagac tgcttttgac   300
cagtgcacaa aggagtt                                           317
  
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<210> 4800
 <211> 179
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316039a02b1

<400> 4800

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cgagccacac cgaacaagcg gacgccacaa aacccggaca cgcgactggg agacgggcaa 120
gaggagaaca tcgaccaagg gacaagccca accggggaga caccacagaa agaccaaca 179

<210> 4801

<211> 122

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039a04b1

<400> 4801

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gatgcactgg cgcctaccgc gcccttgacac ctggcacatc cattgcccct ccttgcctcat 120
tc 122

<210> 4802

<211> 501

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039a07b1

<400> 4802

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ggcacatccc ggtgatcagc ggcacggaga tgatggggat ggtctccatc ggcgacgtgg 180
ttcgcgcggt ggtcagcgag cacaatgagg agctgaaccg gctcaacgcc tacatccagg 240
gtgggtacta ggaccagacc gttttgcagg gcgtcccttt gatgtgaact ctacaataac 300
gaccaggggtg atgatgacga aataggccgt gtttcttcgc ggacaatggc tgttgaactt 360
gaatctgcgt gtgtgatgtt ttctgctta tttagtgcac atttccgtgg ccgcgcgccg 420
ccgggtgctt gtttttggag cgtatagacc atccatctta gctgatgggtg atagacgcat 480
aataaagctt gggagtgacc c 501

<210> 4803

<211> 303
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039a08b1

<400> 4803

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atgtgtaaag tccggttgaa tttatatgct gacttgtgtg cgaggaaggg atgtttgacc 120
catgtatagc ttctggtagc tgcagccgat gattctttca tatgttggtg accgatctgc 180
tcaccgccgt ttgctatgta taattcaaag agctaattga gtgctgtact gttcactcct 240
actcaaggtt gagtaagagt aaccccgct acattttagt gaactataca ataactacca 300
aag 303

<210> 4804
<211> 100
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039a09b1

<400> 4804

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acacccaaaa aacaaaaaaa aaacccaaaa actccacccc 100

<210> 4805
<211> 95
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039a10b1

<400> 4805

cccacgcgtc cgtccacgcy tccgtccacg cgtccgtaaa aaaaaaaaaa aaaaaaacca 60
aaaaaaaaaa aaaaataatt ataactctct tctac 95

<210> 4806
<211> 474
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039b01b1

<400> 4806

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gccaggaact caaaagacgc agaacatgtc ggtcgtagtc tagttatacc gaatttagca 180
acaaactgaa cgagcagggtg atgacggtaa accggatgct taggattgag aggtgtttca 240
gtctggaggc gtggagtgaa gtaggaagag tgtatagcaa cagtacataa tctcagagca 300
gctgttaatg ttaattcatc catcctatta ttgattgatt ccaagatagt gtagtacata 360
tggaataaat tcggctgctc ttgccatcat ctttattggt gtcagctccg gtagaaaaga 420
tcgtgttaac aaaaaggcat gaaattatgg aataagttat tggttgttgc catc 474

<210> 4807

<211> 81

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039b02b1

<400> 4807

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cgaacgctgg cgcagtgtcc g 81

<210> 4808

<211> 390

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039b03b1

<400> 4808

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tcagcaagta aggatgtgct tgcacttgct tccctcgtgg ttgatctatc cagcattgaa 180
cccggtagca cagtgactgt caagtggcgt ggaaagccag ccttcatacg gctactgaca 240
gactatgaca tcaagctggc caacagccta gatgctgcat gcctgcacca cccagatcaa 300

gacactgac gtgtgaagaa cccatagtga ctgacgggta ttggagtctg cactcatctt 360
 ggtggcattc ccccttccaa ctctggagac 390

<210> 4809
 <211> 146
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316039b04b1
 <400> 4809

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 ctggactctt acattagact tgaaca 146

<210> 4810
 <211> 207
 <212> DNA
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 <223> Clone ID: uC-tsro9316039b05b1
 <400> 4810

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 aaaaaaaaa gaaaaaaaa aaaaaaaaa aaaaaataa aataaaaaaa ataacc:aaaa 180
 taaaataaaa tggggcggac ctttaaa 207

<210> 4811
 <211> 135
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316039b06b1
 <400> 4811

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 cacacactgc ttaaa 135

<210> 4812
 <211> 499
 <212> DNA
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<223> Clone ID: uC-tsro9316039b07b1

<400> 4812

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cccttattat ggcaccgtgt cagctggaac ctacaactgt ttcatagcag ggcggctgga 180
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cgactcctgc agcatcgacg ggcgccatcaa caccttcaaa tctggcaacg acgtcatccc 360
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acccatgcca gccgcaagt 499
  
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<210> 4813
 <211> 365
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316039b08b1

<400> 4813

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cagcatgtgt ggcaccgagt tggcagtaac ctactgcgta aacacacaga gcagaa.cacc 180
cctatgctcc ttaagcacta ggtgcagggtg gcctacgaaa aacagcgta tatatgagag 240
gccgttcaag ctctatcaa ccgtcccaga attgctgcct tgataaactg acgcct.caca 300
ctccagcagg atttacctgt gccgtacgaa ctctaagtgt agcacaaccg tcgtccttcc 360
caggg 365
  
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<210> 4814

<211> 107
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316039b09b1

<400> 4814

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 aaaaaaaaaa ccacaaggat caacaaaccc tacaacgaga gcggcaa 107

<210> 4815
 <211> 117
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316039b10b1

<400> 4815

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<210> 4816
 <211> 472
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316039c01b1

<400> 4816

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 tgatgacttc catttctcgt tttgggttagg agttccacg atgggatggg tacaactta 180
 aagtccaagt gactataaaa gaaacaacaa aaacatagta aaatgtataa aattacgcag 240
 ctttcccccc accactgggtg ggggggttttg gagctgaccc cttaggaaaa caattcttcg 300
 attgtttgct agatacgtta tgagacggac ctgtttaagg ggccgttcca tttctgaagc 360
 taacaaactt taagtcgttg atttgacctgc gatttgaaga cgctgtagct gcatctgctc 420
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<210> 4817

<211> 408
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316039c02b1

<400> 4817

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 gccaaatcgg ggcgagcgag gatcgtcggc gtcgccgcca gacctctgcg gagggcgctg 180
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 ccggcctgct ggcgcccttg gtctccaggc gctggcgagg cctttccacc gaccccaact 360
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<210> 4818
 <211> 95
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316039c03b1

<400> 4818

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<210> 4819
 <211> 448
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316039c04b1

<400> 4819

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 caagcttaaa gaatcgagca gatcctgcgc cttttctgcc tgcagtgatg cattgtctctg 180
 ccttcttcta atacaccatc tgtcccaaaa ataaatgtct caaacttaat acaactttgt 240

actagcccta atacaaagtt gagacactta tttctagact gacggagtag tcagtattgg 300
 cgtccgcttg tatattatat taagtagaaa cgaaatgacc ttagaaaaag gcatcaaat 360
 gcaacccgat gtttagtggt agttgccttt gaagatatgt tgtgcccagt gcgctggaca 420
 agaaatgcta gtagaatgca ccctcggt 448

<210> 4820
 <211> 174
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316039c05b1

<400> 4820

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 ccaaaaccgg tatTTTTctg tgaggggtcc aaaaaagaaa gaataacaag tagg 174

<210> 4821
 <211> 359
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316039c06b1

<400> 4821

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 ggagctctac aagcggggag ggaccctgtc ccagctgctg cagaatgggc gccccccact 180
 aaaccaagtt gctaccaact ggtcctcgga agagaaggac cactgcctgc aggagaccga 240
 gaagtcgttc gcctactcag gggatctccc acgccagatt tttacctgaa ccaaacacga 300
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<210> 4822
 <211> 98
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316039c08b1

<400> 4822

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aagggcggcc agaataagaa ggaaccaaag cttacaaa 98

<210> 4823

<211> 480

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039c09b1

<400> 4823

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agctacacta ccattgaacg gttcagttca atgctaactc agaagaccaa gatgaaagggt 120
ctcctcgaaa ttctagcttc agcatcagaa tgcagagctt ccaagtcgcc caggcgaaga 180
ggaatacatt gagaggctag tccgtcacca gaggttttct attgacaaac ccaagtatgg 240
tgatccacat gtcaaggcga acgccctgct gcaatccac tttgcaaggc acacgggtgg 300
agggaacctg gcagccgacc agcgcgagat cctcctttct gcccataggc tgctcctggc 360
aatggttgat gtcatatcta gcagtggatg gctcactctg gctctgaatg caatggagct 420
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<210> 4824

<211> 79

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039c10b1

<400> 4824

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<210> 4825

<211> 394

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039c11b1

<400> 4825

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa agaaaaatta aaaaaagtaa aaaaaaaaaa agaaaaata attggggggg 180
gcggttttat aggttcaaag ttacttcgg ggtgtttgga aggtattaac ttttttttgg 240
ggggacctaa attaatttaa tgggggggtg ttttaaaagg gggagacggg aaaaacctgg 300
gggttaccaa atttaatggg ttgaaagaa tccccctttt tgcaagttgg ggaaataaat 360
aaaggggccg aacgtttggc cttttcaaaa attt 394

<210> 4826

<211> 307

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039d01b1

<400> 4826

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acaagaaggc caagatcgca acaccgtcag gccagaagac aggctacaag aaggagctg 180
tccatgtggc gactcctcac cgggccaaga aggcaggcaa gaccccggt accaccgaga 240
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<210> 4827

<211> 355

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039d02b1

<400> 4827

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accagcgttt gctgattagg gtttagcttg ccatgacgat gtcctcatta tgtaatgcta 180

tgtaaggaga atgttttagat gcgtactcct gggctgtggc atgctagaga tgcattctgtt 240
 tgactatcaa cgaagaaaag ctttaaaacc ctgcactgct tttctttctt ggactttcac 300
 atcatgtgta tacagtcac atgatggctt gctattaatc gcgttttgtt ttgaa 355

<210> 4828
 <211> 268
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316039d05b1

<400> 4828

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 catcacttct gagaagaaag ggccgctgtc aaagctgtcc gaatttatgg cgaggcctac 180
 agccccgggc ttttcaccaa gcttctggaa aagaagagcg acaactacct aatccccctc 240
 gtgggatctg gtggaatgag gtgatcca 268

<210> 4829
 <211> 206
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316039d08b1

<400> 4829

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 gcatcagggc aggagcatg ctatgacgct attggccgta ctgccatgga agccatgaca 180
 tgggggtgtg cgacaattgc gacatg 206

<210> 4830
 <211> 499
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316039d09b1

<400> 4830

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 aaggtgtggg tgaaattcta gctgcagcat cagaatgcag agcttgcaag tggcccaggc 180
 gaagaggaat agattgagag gctagggcgt caccagaggt tttctattga cataaccaag 240
 gttggtgctc cacatgtcaa ggcgaaacgcc ctgctgcaat cccactttgt aaggcacacg 300
 gtggtaggga acctggcagc cgtccagcgc gagatcctac tttctgcca taggctggtc 360
 ctggcaatgg acgatgtcat atctagcagt ggatggctca ctctggttct gaatgcaatg 420
 gagctgagcc agatggagac tcaaggcatg tgggatcgtg aatctgagct gctccaactt 480
 cacacttgac cagggacct 499

<210> 4831
 <211> 391
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316039d10b1
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 atcatcatgc tcaagaacgc atgcgacaag tcggaggaca agaagaagag gaagagggagg 180
 tcttgaacgt gttgtcctct gcacatcgta gataccatca ccgtcgccgg cgctactggg 240
 tccacctcca ctgctaagta cttgtaggaa ttaagctggc gcagtaactt gtgcgcgtgc 300
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 gaagcttttg cagaccctgt ctgcgttcgg g 391

<210> 4832
 <211> 87
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316039d11b1
 <400> 4832

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cccgatagca ggacctaata ggtactg

87

<210> 4833
<211> 402
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039e02b1

<400> 4833

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aaggaggaga atgtcaccct tggaccggct gtccgagagg gagagcatgt ctttggcggt 180
gcttacatct ttgcatcctt caatgacact ttcattccatg tgactgactt gtccgggagg 240
gaaaccctgg tgcggatcac tgggtggaatg aagggcaagg ctgatcgcca tgagtcttca 300
ccctatgctg ctatgcttgc atctcaagat gttgctacac gttgcaagga gcttggctatt 360
accgcactgc acattaagct tcggggccact ggaggcaaca ag 402

<210> 4834
<211> 76
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039e03b1

<400> 4834

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tctccctggt ttaact 76

<210> 4835
<211> 497
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039e04b1

<400> 4835

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gagcaccaag tgggcgctga ggctggacaa ggtttacctg acgattgatc tgcccgcgc 180
caaggatgtg aagctcaact tgaggcctga tggccatttc aacttctagg caaaggcccc 240
tgctgatggc atgcagtatg agcttgacct tgagctcttt gatgctgtca gcgttgagga 300
gagccaagcg gctgatgccc cgagggtat atgctacctt gtcaagaaag ctgaggccaa 360
gtgggtggcct aggctgctca agaaggaatg caggccgcct gtgttctca aggctgactg 420
ggataaatgg caagatgagg atgatgaaga cgctggattt ggtgactttg gtgatatgga 480
cttctcgaag ctggaca 497

<210> 4836
<211> 251
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039e05b1

<400> 4836

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aatcttcgtc aatccttaga tacattcgct ggaaaacccc attacgcatg ttttgaccac 180
acaacccggc ggtgggacta gaatgcacac cttgttgct taacatgaga tctttaaaac 240
tgatataaaa a 251

<210> 4837
<211> 344
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039e06b1

<400> 4837

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tcgccgatgg gttgcctgca ggcgagcctg ataccggtgt cgtcgaccag gcacggagga 180
ggaggcttgc ctggagcgta acttagctat aatgctcggc cgatcctgct gcttcttggg 240
gggcaaggaa aaagattaca ccgaggetta ctctctacga ccgcaccagg ctgagccaga 300

ttattttccgg tgacgcacac catggatccc cagacatttg tgag

344

<210> 4838
<211> 112
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039e07b1

<400> 4838

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gagaaaacca gggggggggcc caatctctga ctccgccgca cgccgcacgc ac 112

<210> 4839
<211> 344
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039e08b1

<400> 4839

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aaagggttcgg tttatcactc taaaacaaat agcactgaca caaaggatgc caaggacaac 180

cttaaacctg atggttgatt ctctttcttt gccactgctg gaactgatgg caactactat 240

gaatcgaaac tggattatga ttgacaacat taaatggtgt ggcaagcata gccatttgct 300

ggtgttaggt ccatattcta gaatttggaa aaagcctacg tcca 344

<210> 4840
<211> 375
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039e09b1

<400> 4840

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tgcccttttg tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaa aaaaaaaaaa aaaaaggggg gggccctttt aaaaaaccaa attttacctc 240
 ccggggccttg aaaaaaaaaa ttttttttaa aggggaacaa aaaaaaata aactggccgg 300
 tttttaaaaa agttgaaacg ggaaaaaccc ggggtttccc aaattaaaaa gctttaaaaa 360
 aaatcccctt tttcc 375

<210> 4841
 <211> 458
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316039e12b1

<400> 4841

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 cgatgggttg cctgcaggcg agccggatac cggcgtcgtc gaccagccac ggaggaggag 180
 ctgcctgtag cgtagctgag ctatagtgtc cggtcgatct gctgcttctt gggggcgagg 240
 aagaagaata accgaggctt actctcgacg acagcacaag gcggagccag ataatttccg 300
 gtgacgcaca ccatggatcc ccagacattt gtgaggctct caatcgggca gcttggcctg 360
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 ccggttcagt tagctccggt gccctctgaa aattcttc 458

<210> 4842
 <211> 164
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316039f01b1

<400> 4842

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 atggacctct tcaggaagtg catggagcca gagtgaagt gcctgatgga tgccaagatg 120
 gacaagagca ccatccatga tgtcgagctt gatggaggtt ccac 164

<210> 4843
 <211> 84
 <212> DNA

[illegible]

<400>	4843
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<400> 4844

<400> 4845

<210> 4846

<211> 507
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039f09b1

<400> 4846

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tctgaggagg ttgatgtcct gaaccgctac ttcggccacc tgaagtctgg tggcaatgct 180
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caacctgagc agcccatggt caccctggag atgtgcatga ctgggctgga caagaagaag 300
gcctctgtct tcttcaagac tcaagctgat ggccacgttt cctgtgcca ggagatgacc 360
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ccctgcggct actccatgaa cgccatcaac ggatctgccg tctccaccat ccatgtgatc 480
cccgaggacg gcttcagcta cgcgagc 507

<210> 4847
<211> 424
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039f11b1

<400> 4847

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aggggagaga agggcttcat cgagggatgc ctgcgccac tgtgctgctg ctggatctgc 180
gagatgtgct gcgactaacc ggccggccgg cgaggccgct gctggctggc acaagacctc 240
gggtctatag taccacagag gaggaggagc gtatgcgtat acagagagag aattgttctt 300
aatttcagtg cccgttggtt taggctctat acagtatata ctctaagtt gatgcatgca 360
tgatcagtac cagtgtgaga tatcgattca tgtatccgtg ttgggtgcca tattcatgca 420
cctc 424

<210> 4848

<211> 62
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316039g01b1

 <400> 4848

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 ct 62

<210> 4849
 <211> 464
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316039g02b1

 <400> 4849

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 accgtgcgct gccgcagggg gaggtgaagg cggaggagtt ctgggcgtgg ctggggcagt 180
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 tcaacctgtg gttcgcgtcg tggaaggcac ggggaggggt gcaagccgcg gacgccaacc 300
 gtgacggcgc cgtcggcagg gaggaggccg gcctgctctt cgcctacgca cagaggcagc 360
 tcggcggcaa gatcaccag ctcggctcct actgataagc tgggcatgta ttaacctgct 420
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<210> 4850
 <211> 500
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316039g03b1

 <400> 4850

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ggattggggtc caccattgct cagggcatgg ctttcggtac tggaagtgcc atggcgacaca 240
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 ctgctgcac c tatgactcca atggacaatg ctgctgatga caagtgtggc aacccttcca 360
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<210> 4851
 <211> 427
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316039g04b1

<400> 4851
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 agtgaggctg ctgcactat gactccaatg gactatgctg ctgatgacat gtgtgccaac 360
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<210> 4852
 <211> 447
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316039g06b1

<400> 4852
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aacgaccggc tgcactacgg ctagcgggag ttctacatcg acgagacgcc ggcgtttcgg 360
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<210> 4853
<211> 468
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316039g07b1
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tgtcgagtgc ttgtcaaaac cgaacgaatg tgaaggtaa tcggtttctt taccattctg 420
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<210> 4854
<211> 289
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316039g08b1
<400> 4854

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cggggggccag atcagcggcg gcgcgcacgg gcccagcgg gacaaggga atggcgcgcg 180
caggaactca gccgagcaag tgcacgcca tgacatgcca gaggcgaaca ctaacgatgc 240

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289

<210> 4855
<211> 210
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039g09b1

<400> 4855

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tctaacgaca gtggctgttg ttgtgagaag gaagccccag tacgtgtact aatgcgacag 180
aaatgggggg gggcgccctg tgggttgccct 210

<210> 4856
<211> 453
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039g10b1

<400> 4856

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aagctaacga cgtggcagtg tgtgagtagg aagcataagt acgtgtacta agcgacagcg 180
attgacagta gtgactagtg aatgagtgga tctgtgaatc atttttgtag atgtagagtc 240
ctggaatcag gattatgcaa ctatgattgg gtgattggta cactgattgc cagcaaaaaa 300
aatgtgatga aaacttttgg cgggtggtct taacaagtag aagtagtata gtatat:tttt 360
gacagttggt ggtctaacta gtaaatttac cagttgcccc acagctgtcg gattat:gagt 420
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<210> 4857
<211> 347
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039g11b1

<400> 4857

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ttcatgtcgc tcgacttcgg ccagcgcaac tggtagctca agggcgtgac ctccgatgta 180
atacacgacc cgctgcgtac tacgccggtc gccaatgtga ccttcgcgca ccctttcacg 240
tactagcacc agacggagct cttcgttgcc gcctagggta tttacacctg acagttcgtc 300
tactgcggac gccgatccac cctctccgtt agtcacatgc tcccgt 347

<210> 4858

<211> 492

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039g12b1

<400> 4858

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gttgatgaga acaaggggtg cacattcaat agccgttcca ggggtgctgt ttttaaggac 180
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cagtatgggtg ttggttatat gcagtctcct agcatgccga gaaaccaacc ttctgtgtac 360
tttggtaaac ctgatttatc gatgggatct tctggaactg ctgtttaccc acagtggcct 420
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<210> 4859

<211> 237

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039h01b1

<400> 4859

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gccgccaacg ggatagtgtt ttcattcatt actgagttct tcaaggaata tctgaaggaa 180
aatagtctgg atgatctgat cgcactttta aagaaaggca aaatggagga caattta 237

<210> 4860
<211> 265
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039h03b1

<400> 4860

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acacccacc tacaaataaa cggaaaggcc ctccagcaag ctgttacgag gtggagtgtc 180
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ctcagactct tttctgcttt gctga 265

<210> 4861
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039h04b1

<400> 4861

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tattgcccac ctacaaatag actgtaaggc actacaccta gctgctacga ggaggagctg 180
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tcaactcagt tatttgctgc tctgctgatt gctacacaca ttggcctcta tctcgagtct 300
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atccatgcta ttctcatcca ttgactgaac 390

<210> 4862
<211> 414
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039h05b1

<400> 4862

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agagagaaac cacaggagag ttgtgcgagg cagctcgagg aagaagaagg ttggcgctgc 180
aagaggagcg gcgccaacaa ttggtattca gagccttgtc ggtccggagc ggtggcggcg 240
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acggtgcgag gccgttatga ggaggagatg gtgcgcggtg atcgtcgctc tgaagtcgct 360
gtccgcgtta agagaaggcc gcttcatacg gcatgacacc gaggtgatcg gcgt 414

<210> 4863

<211> 58

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039h07b1

<400> 4863

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<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039h08b1

<400> 4864

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cggctgatct tcgccggcaa gcagttggag gacggccgca cccttgccga ctacaacatc 180
cagaaggagt cgaccctcca tctcgtcttc aggctccgag gaggcacatc cgagccatcc 240
ctgcaggcgc ttgccgcaa gtacaaccag gagaagatga tctgccgcaa atgctatgag 300
cgctgcacc ctatggctgt caactgccgc aagaagaagt gtggccacag caaccagctg 360

aggcccaaga agaagatcaa gaactagagt gccactagtc agtttcatgg gccggttgaa 420
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<210> 4865
 <211> 443
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316039h12b1
 <400> 4865

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 cggcagcggc gcgacctggg ccaccagcgg cggctacgac tcgtggtcgg ggaagcagaa 180
 gttctctccg ggagacagcc tcgtattttc gtactcgccg gcgcacgacg tcgtggaggt 240
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 catgaccacc gtcaagctca ccactgccgg aaagcgctac ttcattctga gcatcaccgg 360
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 ctatcccagg ggccagagga gcg 443

<210> 4866
 <211> 396
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316041a04b1
 <400> 4866

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 caacaagaag cccaccatca cttgccgtga gatccagacc tccgaacgcc tcgtctctcc 180
 cggggagctc gtcaagcacg ccgtcttcgt gggcaccaag gtcgttacca agttgacctc 240
 atcctgcaca ggtaggctt gaggtctcgt gcttcatgcc ttctgtgtgt acctagtccg 300
 cagtgtgatg ttacaatctt cgtaaggatc tctgctgctg gcttgctggc tcgacagaaa 360

tagtgatgct ggtgcctgat caaggtgggt gatccc

396

<210> 4867
<211> 445
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041a09b1

<400> 4867

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tgtatcttta gtcctccaa tagataacaa caaaaatggg gggggggcct tttgggggtc 180
ccacgttccc gccccggggc cgggggcttt ttcccttttt tttggggggc ccctattcct 240
ttctccgagg ggggggcttc tcaccgctgg ggggggggac ccccgggggg cccccaccct 300
tttttctttt gggctccgcc tcttttttcc cccggggggg tgggtaaaat gggggccccc 360
ccctccgctt cccccccctg gggccccccc cttgggggtg gggccccccc cctgggtggc 420
gttttttggg cgggggggtg gggggg 445

<210> 4868
<211> 430
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041a12b1

<400> 4868

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ctgtggtggc tcgtcatcgt gggcgtgggc ctgtaggagg cgcacggggc gggatgtgaa 180
ctcggcagcg tgcgtagcc gctccaaggc ggctcggggc tgtccctcga ggtcccggcg 240
tggtatgtgg ctgccacggc gtggtggtgg ctcatggcgg tggctcgggt tgtgtcacgg 300
cggcggcagg acttcttcgg tgtccggcgg tcgggtgagcg ccttggtgac ctttgattcc 360
tcccccttgt cgtttgggca ctatcttcac tgaagggttg gccattctcc agttgtggtt 420
cctcgtccgt 430

<210> 4869
 <211> 524
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316041b01b1

<400> 4869

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aggtgaacaa gaaccgctgg atcgaggagt ggaacgccgg ccgggagaac ctcgagctca   180
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cgtacaggaa gttcctgtga gcgttgctc cggtggatgt cgagactccg agccgtctgc   360
agggtttcgg tcaggagaa ggaatctcca ttcggttagt ttcccgact gttgtagtca   420
gaccggagta ttttggtctc acatgttggt cgatatgtgt taaataagat gtaatgaaat   480
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<210> 4870
 <211> 518
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316041b03b1

<400> 4870

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ccagcagcgc aacggcagga agagtctgac cactgtccag ggcctgaaga aggagttcag   180
ctacaacaag atcctcaagg atctcaagaa ggaattctgc tgcaatggca cagtagtcca   240
ggatccggag ctaggccagg tcattcagct tcagggtgat cagcgtaaga atgttgctac   300
tttctagtc caggctggga ttgcgaagaa ggagctcatc aagatccacg gcttctaagc   360
cgaagccgcc tccgataaat gctcgaaccg ccagccggct ctttttatat tgaaggcata   420
aggcatatat atattgccgc ccgcttgctg aactgtgtct tgcttgatgc aagctgtgtt   480

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518

<210> 4871
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041b04b1

<400> 4871

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tcggattttt gctactaccg gagacgccat ttgctactac cagagtcttg ttggaagcat 120
cagaagtttt cgctaccacc ccaagttttt tttgactttt gctgaaccag cctaaaaatt 180
gctaccaccg tcttttgatt ttgctggaac cggcattttt tttgcttcac cggcggcggg 240
gaaggtgggt cgtgttttgc ttcgccggcg gcaagcaggg gtagcggccg gcgacgtgag 300
gctccgcgag ccgcgggggg cctcgccgga gatgcgccgc aggggcgttg ctggagctgg 360
gcctcgcgcg aagatgcgcc gcgggggcct tgctggagct tggaccctcg ccg 413

<210> 4872
<211> 346
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041b08b1

<400> 4872

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acaagtcccg gatgtccctg ggtctgccg tggcagcgac ggtgaactgc gccgacaaca 120
cgggcgccaa gaacctgtac attatttccg tgaagggcat caagggaagg cttaaccgtc 180
tgccgttggt ctgcgtcggc gacatggta tggccaccgt taagaagggg aagcccagacc 240
tcaggaagaa ggtcatgccg gcggtcattg tgcgccagcg caagccatgg cgccctaagg 300
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<210> 4873
<211> 459
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041b09b1

<400> 4873

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atattgcaa tcttaagaca gagctcgagt tactgtcttc acagaaagct gcagttgata 180
ataaggtgtc tggtttgctg agtgatctcg cgacttgtga tgaaaagatg aaggagatgg 240
atagccactt gcatcagctg cacctggagc atgtgcaagt gattgcagag gcagatgccg 300
cacggaagtc cgtggcagac ctgctgtcac gggctctgtga gctcgaggaa gaggttgaga 360
agcagaagct catggccttt gacagtgcaa aggggaagcg ggaggcaatc aagcagctgt 420
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<210> 4874

<211> 91

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041b11b1

<400> 4874

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ccgccacgc gttcgactag ttctagatcg c 91

<210> 4875

<211> 348

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041b12b1

<400> 4875

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cgacttcttc cctggcgcg tcaccgcttt cgcgggcgcc gccggctgct tcgcgcttgg 180
ctactttctt gcccttgctc ggcttcccat tcacgcggc ggcgtccccg acttcggtga 240
cgacgatttc gaggacgact tggacgaaga tgatgactaa aatttcggcc gcgccggcc 300

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348

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<211> 406
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041c10b1

<400> 4876

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cagcagaagg tgctgcggca agggcatcgg agcacagaat cctggctgtt aacccgaact 180
acgtcattga ttgattaacc agctgaggtc acacagctaa ctagatccat catatctggt 240
tgaccaatag agcagacatt caaacggaag acatcctgtt gtgatatgct ctagaatga 300
tatgttgtac ctgccatccc cttcccaagg aagcacaaga tctctggaat tgtatcttct 360
tccaagggtg aagtgtggta attaatttgc caccagtatt gggtgc 406

<210> 4877
<211> 465
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041c12b1

<400> 4877

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gagctccgcg gcgggttcgg ccccgccgtc gacactttcg tcggcttctt ccacgcgcgc 180
gactggaagg aaccttggtt gatcggcatg ataagtttcc atgccattct gctactggta 240
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<210> 4878

<211> 497
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316041d01b1

<400> 4878

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gcaatgtgta aaatcattgt atgactatga gagatgtgtg aagagagtca agaattgatga 240
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ggaaacaata ctttatt 497

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<210> 4879
 <211> 528
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316041d02b1

<400> 4879

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ctatttggtg caagaaatta gaaagacaca ctcttggtgt gacaatcccc aattgactga 480
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<211> 295
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041d04b1

<400> 4880

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cggaaccgaa aaaggggtca ctgcatgtct gaagacaaca aactgactgg gaaaactctg 180
ccttcgctca gaagacaacc caacctgatc agctctcggt catcagatgg catatgagcg 240
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<210> 4881
<211> 478
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041d08b1

<400> 4881

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gacgagaagg actacaagga gccgcccccg gcccccttct tcgaggccgg ggagctcacc 240
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gtcggcatcc aaggcatcgc ctggagcttc ggcgcatga tcttcgtgct cgtcactgca 420
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<210> 4882
<211> 355
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041d10b1

<400> 4882

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tataaaaaaa aaaaataaaaa aaaaaaaaaa aaaaaaaaaa aatattggcc gtccctttta 180
aagtaccaa ctatactttc ccgtgcatcc aacattataa tttttttata tggccaccta 240
attaaaattc tatgcccgcga atttaacaac ctctcaacgg gaaaaaccct cgattcccca 300
aacttaataa tattgtaaaa aatctctctt ttttccaatt tgttttaatt aaaaa 355

<210> 4883

<211> 70

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041e01b1

<400> 4883

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<210> 4884

<211> 531

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041e03b1

<400> 4884

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caaggccgac accaagttgg cgggtgaagag caagggggcg gagaagccgg ccgccaaggg 180
gaagaagggc aaggccggca aggaccccaa caagcccaag agggcgccct ccgccttctt 240
cgtcttcatg ggcgagttcc gcgaggagtt caagcagaag aacccaaga acaagtccgt 300
cgccgcccgc ggtaaagcgg ccggtgagag gtggaagagc ttgagcgaat cggagaaggg 360
cccctacgtg gccaaaggcca acaagctcaa gggcgagtac aacaaggcca ttgccgccta 420
caacaagggc gagagtgtgt ctgtgtgtgc cccaaagaag gcggcggcca aagaggtaga 480

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531

<210> 4885
<211> 550
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316041e04b1

<400> 4885

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acgatcggct cgtcttacat tttggccatc tctgtacctt atgctttcgg tgaggaggat 180
catgaaatgc acagaggaaa gcccttgat cttagccaag aaagatacgc agccctcaca 240
tatctggtgg catctcatag ccttgaccgg acttctgaag ttctgcggca aacaaccatc 300
agcttttata catctgatta agtgcacgt tttgaggaac aatgccccaa ggatcatgtg 360
atgtgcatat tttctgggaa ctgtggtcta gcttcatatt catgctttcc agtgatggtg 420
aattgcatcc attcccaagg tggcacggat tctggcagac tatcgagccg tgcgtcgggtg 480
tttcagacct tgttcgagca caatgtacag cggtgcctat ggcgcccctt ttntctttcc 540
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<210> 4886
<211> 232
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041e05b1

<400> 4886

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aagcaaagac atgctgtggc tttgtctagc attgatgtgt gcatatactg ttgttggtgct 120
gggacaatgg gcttcaccac tgcggtgacc tcgtgtatac cactagtaag agacatgttg 180
tgttgtaga acaataaac ctaagtgtta aaaataaaaa taacaaatgt aa 232

<210> 4887
<211> 444

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041e07b1

<400> 4887

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gacagcaaca tccaagctga aattgcaaag cttcgccacg atgtggagga atatgcgaaa 180
caattcccaa caattggatt cgagaaagag accatgaagt acaagaacta agaactgcta 240
tgtttcaaca gcaaggaagc aaccaggaag cacaactgag tacaagtcca tgtaaacaat 300
agatgcatga tgaagcgcca ccatatgtaa aaggaatcca agcattttac agaatatggg 360
aactttgtca atagtttctt attgcaggca catactgtaa gatgctttcg tgatatgcta 420
tatgaaccgc cattcttctt ggat 444

<210> 4888
<211> 307
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041e10b1

<400> 4888

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aaatttttat tcttattatt acataattaa aatttcatat ctttttaacc cggggcggcc 180
ccttttgggg gtccctagtct tctctccgtt ggtcgtgttt tttttctttt ttttttgggg 240
ccccctattt cttctctcgg gggccgtttt tctcctctct tggtggggga acccccgggg 300
gtcccc 307

<210> 4889
<211> 316
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041e11b1

<400> 4889

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 gatgatttgt cccatgtata catatcgagt agtaggcgca cggatttagt acgatccatg 180
 tatagagggt ggctcagaac cgtgagcggg gtgtctcacc atcactcgat tgtacagagt 240
 gttctcttcc attttgctat gtgaatatgt gatcagatat ttgtaggaca gcatatgatt 300
 attagtacaa ctttac 316

<210> 4890
 <211> 461
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316041f09b1
 <400> 4890

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 atggacaagg tttggcgcac tctcacttcc aggtcgttgg ctgctgccgc aactgttgcc 180
 gctgagcacg caaatgttcg acttttgtcc ttctagggcc atgggcaactg agctcgggag 240
 ggcgttctct ctgtcaaatt cttgtcacgc tatatgaaac cttacatcta agctgctaaa 300
 gtgaatgacg ggtattgtct gtattgtgta ttgtgtattg tgtaggtagc aagcagcttc 360
 cttttgttcc aggtcatgta atatcatcag caaaaataga acttaagaca gcaaggtctt 420
 acattttttt ttgttaaaga agaaggtggg gtagcaagac t 461

<210> 4891
 <211> 75
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316041g02b1
 <400> 4891

tttaataata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taataaaaag aaaaaacaaa 60
 actaaaaata ggggc 75

<210> 4892
 <211> 437
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316041g05b1

<400> 4892

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acctactgcg ggagatcctg gtgcgcctac cctcgcagac cgacctacct gctgcgcgcc 180
tctccttggg tcaagagctg gagacacatg gccatctgcc ccaagctact gcggcgctgg 240
cgcgctccacc accggaagcc tacactgctc ggggactaca cgagtgagaa cgggggactt 300
tcgcgcagat ccaccctgga cctgccgtac cgaatccgtc ccggccacat tttcctacaa 360
ctacaagtac acggtcgtga tccatggagg ttggtcgact gacgccacgg acgcgtgctc 420
cttctaacaa ggagagg 437

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<210> 4893
 <211> 335
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316041g12b1

<400> 4893

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tggtgttgaa tttgcatgct agttgcgtta ataaaaaaaa gaaaaaaatt tattcaaata 180
ctaaaataaa taaaaaaaaa aataaaacaa gattatagat ctaatttgaa caaaagaaaa 240
actagttctt attggggcgg cccttttagg ggtcccaagt ttacctccgc gggcatgcaa 300
gctcttggct tttttttagg gtcacctaatt ttaaa 335

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<210> 4894
 <211> 206
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316041h02b1

<400> 4894

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atgcaccttt aggcaggtgg ggcaatagcg aagagggcag taccgatcgc cctggccaac 180
aggtgcgag actgaatgga cactgg 206

<210> 4895

<211> 325

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041h04b1

<400> 4895

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agaacgtctg gagtggaaaa accgtggaaa gaccaaactg aagcccgttg cacgcacatc 120
tggtggaaca acaggatggc gtgatggcag aactggccgc gaccaaagag gaactgcaac 180
tgctggtgga acagattggc gggggggacg agcacatgag ggctacacta ggactggcc 240
gtggggtgac aacgcgagc ctggcaaaat cactgggcag cgcaactaaa gcccgtttgc 300
tgcacattct tcctttgcct gctgg 325

<210> 4896

<211> 392

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041h07b1

<400> 4896

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gggctgatac ccaaggagcg tcatgattcc ttcaattgagc aagaagaggt gacaagacag 120
acggagaaaag taaatggagt gctccaggac tatagcaaca tgcaccagaa gctaaaccaa 180
gacatggatg caactgttga gtctgtaagg cctgatcgca aacaatagta aaggtcacac 240
catatggggg atatatgaga gaggacaatg caggctctag gcttaggcac gccactgggt 300
gtattgacaa atggtataaa gtgtgagaac gatatcttcg cgtatcttca tttgacgct 360

tggagggtcga aggacttatg gatgtgatga tg

392

<210> 4897
<211> 248
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041h10b1

<400> 4897

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aggcaagagg cacatctgta gcaaactagc ttgggcattt aatagcagcc atgacaaaat 120
atgaagtagt tcttcgaaaa cagttgtact aattctggct ttaagaacac tggaacatag 180
agcagatcca acttggcaca aacaaagatt ctaacctgac ggagacaaaa gaagaactgg 240
ctcttcag 248

<210> 4898
<211> 370
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043a02b1

<400> 4898

ttgtttacgc gtccggtaaa accaaggctc cggcgaacaa ttaccacagc attagcaaatt 60
ccaagtccaa caataaaatg aaaacctcgg agcctcgggc gaagcagccc aagccccagc 120
tgaaggagga agatcacgag gacgaagccc ctgatgcggg cgaggatggg ggaggcgccg 180
ccggtggtgg tgggtggcggc ggggaagagc acggcgatac gctgtgcggc gcatgtgggg 240
acaactacgg gcaggacgag ttctggatcg gctgcgacat gtgcgagaag tggttccacg 300
gcaagtgtgt caagatcacg cgggccaagg cggagcacat caagcagtac aagtgcccg 360
cgtgcatggg 370

<210> 4899
<211> 179
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043a03b1

<400> 4899

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accggagtgg caaggtctgg gtctgtttga atccccggtta aggatggact gtcgagttct 120
tccaagaca aacaaacaca aaaaataaag acaaaaaagc aaactaatta aacctccgg 179

<210> 4900

<211> 351

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043a04b1

<400> 4900

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gtccgtgaag atcgattagt cgctggaagc acaggaggca gagacagaga cagaagcata 120
gcatatgttt tcagctttcg cggtcagagg tgataattgt atgattaagg tgaaggtggg 180
gatcatcccc gtgtttgtta ctcttttgag ggaaaagtta cattttggga ttagattatg 240
aactgttgat ttatgattat tgctgcggtc acaagtgatg atacttgcta gtgataaatg 300
ttggagttac aagggtagaa ttcactacag tgggatagac ttgtctgttt t 351

<210> 4901

<211> 317

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043a05b1

<400> 4901

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actcttcacg tgcgagtcca ggcacgaggg ccatcccgac aagctgtgcg accagatctc 120
tgacgccgtc ttggacgcct gcttgccca agatcccgac agcaagggtg tctgcgagac 180
ctgcaccaag accaagattg ttatggtctt tggtagatc actaccaaag gcaccgtcga 240
ctacgagaag atcgtgcgag acacctgccg taacataggc ttcactcttg acgacgtccg 300
tctccatgct gaccatt 317

<210> 4902
 <211> 347
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316043a06b1

<400> 4902

tgttgctcac gcggttcgccc acggttcgc ccacggtcc gccacgcgt tcgcccacgc 60
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 ctcggcctca acgtctggcg gccgacggcg cggcgggggtg cccctccggt gaccaagatc 180
 ctcgtggagg aggacttcat gtcctccaag aagaatcacg aggtcgaggc gctggaggcc 240
 gagctccggc gcggtggcgga ggagaacagg aggtcagcg acatgctccg cgcgctggtg 300
 gccaaagtact ccgaccttca gggcagggtc agcggcatga tggcggc 347

<210> 4903
 <211> 441
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316043a09b1

<400> 4903

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 cctccgccga cgcgccacc gacggcgagc accggatggg caccaccatc gtcgggggtat 180
 gctacgccgg cggggtcgtc ctcgccgcg actccaggac cagcaccgga atgtatgtgg 240
 caaacgtgc ttcggacaag attagtcagc tactgataa tgtctatgtc tgccgttctg 300
 gatctgccgc tgatacacia gttatttcag attatgtgcg ctattttctc caccagcaca 360
 caattcagct tgggcaacca gctaccgtga aagtcgcac caacttggtt aggttgctgc 420
 ctatcagaac agagcatggt g 441

<210> 4904
 <211> 473
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316043a10b1

<400> 4904

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ccgcggcctc cacggcgcgc acggtgaagg atgtcaaccc ccacgagttc gtcaaggcct 180
actccgcgca cctcaagcgc tccggcaaga tggagcttcc ggagtgggtt gacattgtca 240
agactgcaag gttcaaggag cttccacctt ctgatgctga ctggtactac atcaggcgtg 300
cctcgatggc aaggaagatc tacctgaggc agggaattgg gatcggcggc ttccaagaaga 360
tctacggtgg ccgtcagagg aatgggtcac gccaccgca cttctgcaga gcagtgtgtc 420
tgtgtcccg c aacatcctnc aggagttgca gaagatgggc atcattgatg tgg 473

<210> 4905

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043a11b1

<400> 4905

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gtctctacaa agagggcgca acatcttctg ctatcacttc tgcagaagtt gctataaaga 180
atgaagcaga tgcccatccc aaccatccca cagtaactct gatagaacat gtcaagagag 240
tggattattg ctctgaggaa tgtcctaaga gaaccgtaca gagctactct gaagaccag 300
aactagttga caatacaact aagcaaaagg aaacttaaat ttgtggactg gtgacaagtg 360
agagatggcg tgctgctgct tgtgtggctg gaacgacgtg gtactgtcat agaagctcga 420
acg 423

<210> 4906

<211> 310

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043a12b1

<400> 4906

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 ttgtgagaag tcgattgaac attatgattt agagaaagaa gaaatcgttg tttgcctgga 180
 tgaatccac ataccagaga caattcagcg atttttgagt gaatagaatg ctgaaataaa 240
 cttgtactag catcgaaaat ttcggttcat tatttgcagg aagttgtgct gatctattat 300
 ttacagaaac 310

<210> 4907

<211> 217

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043b02b1

<400> 4907

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 cacggatttt aggcaacaca caaatgctcg tgtgctgtca ccgaagcctg gaagttgtcg 120
 tataacttggc attgtcacat ctaagacatt tgaattgcta gtactcgtgt gaggcactctg 180
 tgtttgatgc acttttacat ccaagacatt tgaattt 217

<210> 4908

<211> 262

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043b05b1

<400> 4908

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 aaaaaaaaaa aaaaaaaaaa aaaaaaagaa aaaaaaaaaa aaaaaaatg gacgaaaata 120
 aaaaaaaaaa aaaaaagaaa aaaaaaaaaa aaataaaaaa aaaaaataaa aaaaaaacg 180
 ggccggcctt tttaggggac ccaatttcaa atgccaaagac gtcggaaacc aaaaatttaa 240
 taaagttaaa ccaaaattaa aa 262

<210> 4909

<211> 362
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316043b08b1

 <400> 4909

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 gcttctggtt tgagcgactt atcccgagta accagtgtag catccttctt tgtcagccga 180
 gttgacagtc tgatcgacaa aatgcttgag aagattggaa caccggaagc tcttgccctg 240
 aggggaaagg ctgccgtagc acaagcaaag atagcaaatac agctttacct gaagaaattc 300
 tctggaccga ggtgggaggc tttggtgaag aaggagacca agaagcagag gttgttgtgg 360
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<210> 4910
 <211> 459
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316043b09b1

 <400> 4910

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 ccaagtcgaa ccagtacgag acggcgctgc tgggtgcagat cgaggggggtg aacaccagg 180
 aggacgtggc ctggtacggc ggcaagagga tggcctacgt ctacaaggcc aagaccaga 240
 gcaacggcac ccactaccgc tgcattctggg gcaaggctctt ccgccccac ggcaaccgg 300
 gcgttggttcg tgccaagtgc accttcaacc tgcccgtcga ggccatgggg aaaaagggtca 360
 gggctctcat gtacccgagc agcatctaaa aggttaattt gaagggtgga ggaattcgct 420
 cgtcccttaa gtttcatttc agagtcttgt tagatggat 459

<210> 4911
 <211> 404
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316043c02b1

<400> 4911

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taagattata ccctatgata ggctagtggg agctccagtg tctgttataa ctaagacgac 180
ctcccaattg cttggccaag cacctcaaatt cacattaagt gaaaatgcgg agctctctaa 240
tcaggcgacc acctatgatg atgttcagtc atcgggtgct agttctttta tacctatgta 300
taatcgaact tttttagatg tgaatcgggt gttctatacg aacaatcctg gagatgcttt 360
ggtcttacgt gctcctgata ttgcaaaatt tcaactggaa atag 404

<210> 4912

<211> 243

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043c06b1

<400> 4912

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tacgcccacg cggttcggtga atgtaaaggt tactagtaca gcctagttaa aaaataaaaa 120
aaaaaaaaaa ataaataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaiaaaa 180
aaaaaaaaaa aaaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gggggggcgcg 240
ttt 243

<210> 4913

<211> 191

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043c10b1

<400> 4913

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ttcgactcca ccaatgggta ggtgggtattt cgtacaattc accgacatat ttgcgctga 120
ttatgaatga tgaatgctat gttgtgggca caaaaagata aactgaatgc ccaactacgg 180

ggggtgcggtt a

191

<210> 4914
<211> 327
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043c12b1

<400> 4914

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atgcatttct ttgtacatag cagcattccc ttttcttggt tgtaaaacta ctactgccag 180
tctgttggtg ttatttccat gccatttgta atttgttctt tgaaatgggt tgtgatttgt 240
tttgtgggga gacagaatta tcctcatttg tgtgggagcc attttctcat tggtcataaa 300
taaaatggat ggtttaccaa aatagaa 327

<210> 4915
<211> 441
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043d03b1

<400> 4915

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aaatttgcgt gcagttgttt gctcggaacc tatactgcta tgatccaaat tcaaactctg 180
aggaattgga gattgcctgt ccagaatctg agtttcttt cagcattcat acgtttgttg 240
aaagtataat tcctctgtgt caagataatt tcatcaagaa gatacagtga tgttggtctt 300
ctttattctt gaagatagat ttcagcttac agatttacat tatctttgat gttttttctc 360
ttcaaaaatg gacttggttaa ctgccttaat ttggcctact ttatcacttt gtgattagtt 420
ataagaacaa tcttgaaaat t 441

<210> 4916
<211> 391
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043d05b1

<400> 4916

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gaggcaagaa ccgcaagagg ggcaagaacg aggccgacga cgacaagcgc gagctggtgt 180
tcaaggagga cgggcaggag tacgcgcagg tgacgcggat gctcggcaac ggccgctgcy 240
aggccatatg cgtcgacggc accaagcgcc tctgccacat ccggggcaag atgcacaaga 300
aggctctggat cgccgccggg gacatcgctc tcgtcggcct ccgcgactac caagacgaca 360
aggccgacgt catccttaag tacatgaacg a 391

<210> 4917

<211> 208

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043d06b1

<400> 4917

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gctccagagt gctacaacta tggtgctgat aaaacttacg tgtcgcgcaa ttgtagaaac 120
cattgtcatc attacagata ggaataataa tgggacctaa gttaaccgtt attactgcac 180
aattaactgg atatttgata agctttcc 208

<210> 4918

<211> 383

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043d07b1

<400> 4918

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ctgacaggag gcgggcgggg agcatggcca tggccacgct gaccgtgctg acgctgatga 120
acttcaagat acaacgcaga gacatccggg accacatgac attggctagc aaaggccttc 180

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043e07b1

<400> 4921

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aaattgctct tgtcctgacc acatggcacc atggagcatg gctgacaaat tactgtaaac  120
cccctgctga ttaagcggcg gacatgattt taatgctaaa atattaagtg ctgcatccaa  180
tagccgcaat tgtattacag tgtactgttt ggtaaatactc atgcgccagt tttttgtcca  240
agagttcaca tgcattgctga acaatagcat ttgtggaagg gtagaatgca gtatggttag  300
cattgagatg gtgtgagcac tgagcacaaa tgttgatgta gtcttctca tgcggatttg  360
ctgcctgaat ccagggtgaac tctt                                     384
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<210> 4922

<211> 429

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316043e12b1

<400> 4922

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atcaagatgg cgggcgccaa gaagacgacg gaggtgggcg tgttcacggg ctactcgctg  120
ctggccaccg cgctggcgct cccggaggac ggcaaggtgg tggccatcga caccgaccgc  180
gagtgtctac aggtgggccc ccccttcacg gagaaggccc gcatggcgca caaggtggac  240
ttccgcgagg gcaccggcct ggcgcgcctg gacgagctgc tcgtcgagga cgagggcgcg  300
gccagctacg acntcgcggt cgtggacgcg gacaagccca actacgtgcg ctaccacgag  360
cagctgctga agctgggtccg cgtcggcggc accatcatct acgacaacac gctgtggggc  420
ggcacggtg                                     429
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<210> 4923

<211> 495

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043f04b1

<400> 4923

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ggccgctgtt gttggtgttg agcatgaggt caaagggtcag ggaatatatg cttttgtaac 120
tttgggtggat ggcgttcctt acagtgaaga actacgaaag agcctcatat caaaagtccg 180
cactcagatc ggggcatttg cagctccaga caggatccac tgggcgccgg ggctcccaa 240
gacccgcagc ggcaagatca tgcgcaggat cctgcgcaag atcgctgcaa agcagctgga 300
tgagctcggc gacataagca ctctcgtga ccccgcgctc gtcgaccagc tgattgcgct 360
caaagattgc taggatgtaa agaagttatg cgactgtttt ttcccctatg tggttatgtg 420
gttggtagaa gttgggttta gtgttcattg gtctcctttt aattggtgca attttctcct 480
gaggctagtg gactg 495

<210> 4924

<211> 501

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316043f05b1

<400> 4924

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tgcaactgga ggagcccatc tctgcggtca cctcccaa cgcccacgcc actccgtcca 120
gtccgcccac ccacaaggag gaagaccgcc gcttgccagg tgagtccga attttcttct 180
ccatccccgg ccgtatccgt atggctgggt gctctcaagt ctcaacacac caacgacctc 240
gagcagcgac cgtctgctg gtcccagcat caagttctcg atgactccgg ccatgccgg 300
ctcgccgtac atgcattct tctccgtgc tgagaggaca ggcggaaggc tccgtcatgt 360
tcgttcctg ttacgacaac cccgtcatgt acgacatga catggagtcc gtcgcccggc 420
tgcccctgcc cagctttccc aagcagagcg actccatctt cctgtccatg gccgactccg 480
tcgaggtgtn gaactacagg a 501

<210> 4925

<211> 379

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsro9316043f09b1

<400> 4925

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atccctcttt gcttgccac ttgtttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa  120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ccaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa  180
aaaaaaaaaa aaaaaaaaaa agggggggccc ttttaaaaga accaaattta actacccttt  240
cattccaact aaaaactttt ttattggggc acctaaaatt aaataaactg cccgtgtttt  300
aaaaacgttg aaactgaaaa aaccttggtt tacccaaatt aaattgcttt aaaaaaaatc  360
ccctttttcc aagctggct                                     379

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<210> 4926

<211> 152

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsro9316043f11b1

<400> 4926

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aaaaaaaaaa cgcgtgtctg gaaaaatttt aggttctttc ttacggtacg cataaaaaata  120
atcttatttg gcggggcggt cccgtttaat gg                                     152

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<210> 4927

<211> 508

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsro9316043f12b1

<400> 4927

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gctcatccac ttccaggtga acaacggcaa ggtgcccgcc gtggccatcg cggcgctcag  120
cagccaggac gccggcgtga tcaccatcgc caacgccgtc ttcgggtcaa cgccgcccat  180
cagtgcctc atcctcgcca aggccttcac gaccgagaag gacaccgtcg actggatcca  240

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ggccaagtgc gcgccggcca tgagcggcaa cagcagcatg ggaggaggcg gctacgacat 300
gccgcccggc ggcggcgagg gcgaaggcgg caacagcacc ggcggcggtg gcgggtacta 360
ccctggcatg cgcaagcgga agccctaagc acggacagga cggccggcca tccacgcgct 420
tatactaata attaataat aatttaagta caagtaaaca aagaaaacat gcatcaaacc 480
agtacttagt acttactact ggcttaat 508

<210> 4928
<211> 398
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316043g01b1
<400> 4928

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catgctcctc ggcagcgctc tcagcaagga cttcccgtg gcctgctact ccgtggacaa 120
gatgccgctc ccctacgagc tgttcggccc gcagccgccc accccggcgc ccgcccggc 180
cccggccccc accaagtcca agcccaagaa gaagaagaag tccgcccggga tcgccgaggc 240
gcccgaggcc gacgacgcca ccgccgacga cgacaccgag aagtccgccg ccgcgtccct 300
ctccggcgtc gccagggtggg ccgctgtact cggtgccgcc gtccctggcg ccatgttctg 360
atctgatccg atccgatccg atccgagagg aacgacac 398

<210> 4929
<211> 356
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316043g02b1
<400> 4929

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cacgctgagt tcaagaagat gtttgacctt attgagcaga acaacctgaa tgggcatgtc 120
cgctggatct ctgctcagat gaaccgtgta cgtaatgcta agctctaccg ttacat.ctgt 180
gacacaaagg gtgcctttgt gccactggg ttctatgagg ctgtccggct tactgt.cac 240
caagccatga cctgcagtct tactacctt gcaactgcat acggtgggtcc tgctgagatc 300

atcgtgaatg gagtgtgacg ctaccacatt gatccctacc agggtgacaa ggcctc: 356

<210> 4930
<211> 309
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043g04b1

<400> 4930

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ttggataacg aggggtggcac cagacgactt cgacaagtcc tgcacacgca tgtaggaggt 120
actggaattc agcattgaat tattcacctg ctgctaggat gtgctctagc agagagattg 180
tgtatttgtg ttgctatagt tgctccacac actggagttt gattgttcat gtttccatga 240
catttatcat ctaatgataa ctgaaagtta cgtgggtgca aaaaaaaaaa aagaaatgaa 300
aagggcggc 309

<210> 4931
<211> 231
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043g06b1

<400> 4931

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaata aataaaaaaa aaaaaataaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa aaaaaataaa 180
aaaaaataaa aaaaaaaag ggggggtccc cccccccca cccctttcaa a 231

<210> 4932
<211> 154
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043h01b1

<400> 4932

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acccccaaaa aaaaaggga cactgtctta taaggctggg ccgttctttc ggggtcccgc 120
 tacctttctc ggcgtcgggtg gggtcgcctc cttt 154

<210> 4933
 <211> 385
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316043h02b1

<400> 4933

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 ttcgccagga tattagcaaa cactgccagt taacaagtgc tacagccccg gtcgacgatg 120
 aactataaca gcacgtgtta gtcctccgta ttactcgcac aaagaaaagc agatgaatgc 180
 ctgagaagcg tcaaagaaga agctccagta ggatatgagg ctgtgatgtc ttagcgtctg 240
 catttttaca cactcgcatt gttgtcttaa agagggactt gcagattttc acatatgatt 300
 actgatgtat tgagaacatt caaactttga ggaatttctg catgctgaat tacagtttagc 360
 agcatggtat gattcgtctga actta 385

<210> 4934
 <211> 483
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316043h07b1

<400> 4934

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 ccagacgcag agcgcacggg acaaagctgc catggcgga gacgcggggc cgctggtggg 120
 aggcacagtg gactcgcga tggggcaaga aaacgacctc gacgtcatcg cgctcggccc 180
 ctctgccgtc tccgagcaca acaacaaggc caatgccctg ctggagtctg agaattgtgg 240
 gaaggtgaag aagcaaactg ttgctggcac gatgcactac attacaatcc gggtcactga 300
 aggtggggcc aagaagctct atgaagctaa ggtgtgggag aaaccatggg agaactttaa 360
 gaagctcgag gagttcaagc tgggtggagga cgttccaagc gcataactca taaggcgcgt 420
 cccagctttg caaggatctg cagctatggt gttgatgtag ctatctatcg gacatggggt 480

agc

483

<210> 4935
<211> 95
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043h09b1

<400> 4935

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aaaaaacaaa aaaaaaaagt aaaaagaaag gactt 95

<210> 4936
<211> 400
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043h11b1

<400> 4936

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ggagaacctt ggctggggaa ttgggtttgg catgctctgc gccatcatgc tcggtgcctt 120

agttgtcttc ttccttggca cccctacata ccgcctctat gcacccactc ccggtgctga 180

gaaccccttt gccctccttg ctcgtagcct tgccgcgcta gccaacatg acaatgccac 240

ttcgagctca ttgcttggtt acaaaaaaga ataccaggta gaacaaaaag aggatgcggt 300

aaaaaaggag gaggcgcgtg gcgtggtacg gttgctgtca atctgggcgg cgtgcctggc 360

atatggtgtg gtgtttgcgc agtttatgac actcttttac 400

<210> 4937
<211> 57
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043h12b1

<400> 4937

ttcttaaaaa aaaaaaaaaa aaaaaaaaaa agaagaaaaa aaaaaaaaaa ccctaga 57

<210> 4938

<211> 128
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046a05b1

<400> 4938

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catgcttttg cgagcgtaat taggaccgat tgtacctgtc tctctttgcc tgaaatgact 120
tgttgcag 128

<210> 4939
<211> 494
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046a06b1

<400> 4939

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ctgaccatgg acaggatctt ggctttctcg atcctcagct cctcgcccgcc ggacatcccg 120
gggtgccggct acagcacgcc cagcgcctt tcctggaggg gtggcagcgg ggagcagccg 180
gagaaagcgg cggacaagca tcggcaggag gagaaggcca accagggctc tcggccggag 240
aagaagccgg aggtgcggtt cgccccggag ttcgacggca tcaactgctt cgagtccttc 300
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tttttgcctg ttgcttaatt agtgatgatg agacatgtat ttctcaaaaa gaaaatgtaa 420
atatttgggc cggggcgacg gccgaagctt tcggccgggc ttatgcgcga cgccccatct 480
agtgggatcg tgcg 494

<210> 4940
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046a09b1

<400> 4940

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gagtacatca accgcgccag atatagtata ctogtgactt atattgcctg ctggattaaa 120
 taagtgggtgt gttgtaaccc accaccatca agtcattctg tgctatataa tgtcaagatc 180
 aatcaagatt aggggtatgat gcccatgtaa atcttgtgat tgttctgact tacttttctg 240
 gcttgtatgg atgataattg tatgtgtgtg ctggttgtac tatgattgtg tgatgatata 300
 tattaaaatt tctactttgt accttttaaa aaaaaaaaaa aaaaaaaaaa aaaaataaaa 360
 aaaaataaat aaaaaaatg tctgtcttta ttaaagatc catgataaat acg 413

<210> 4941
 <211> 448
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316046a11b1

<400> 4941
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 atgtcactga cgaaaagaaa agaaaaaaga aaactatata tgatttcttc taagccaggc 120
 aggccattct ctctgaatct gcttttgctg tgcagaagct ccgtgttcag ggagatgaag 180
 aaataccaga tgggtttttc tagctgggtgc ggtgagtgcc agcgtgaaaa gagagaaagg 240
 cagattcagt gcgtcaaagc gaccaagcat ttcttagggg tgctggaggg gcaatgattt 300
 aagtcattat tactgcatgt attttatgca atcctgtatt atattaaaca tcctttgatc 360
 atttggaac gtctagtata actgttgtcc aatttccagc tcgtattttg tcagtgtcat 420
 tgcattctat gtaaaatctga acttttct 448

<210> 4942
 <211> 278
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316046b02b1

<400> 4942
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 aatgtaacaa caattggctc cttttaacag gaaccacctc tgttttctag tgcagctctg 120
 tctgatctat ttaagggtta acaagttttt gttaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaa aaaaaaaaag ccgaaaaaat taaaaaaaaa aagacggctg aacaatagat 240
gctaccttag gtactatttc atagaggagc ctaattac 278

<210> 4943
<211> 236
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046b05b1

<400> 4943

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tggtcttcgt cactactggg gtctccgtgt gcgtgggtcaa cacaccaaga caaccggccg 180
caagggtcgt accgtcgggtg tatcgaagaa gaaataaggg cttgggcaac gacaat 236

<210> 4944
<211> 440
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046b10b1

<400> 4944

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cgtggtggcc gggcctcgcc cggagacggg cctcgacaag ctccgccggg ccgtcgccac 180
ccaaccctc gccatcaaca cagctgcagg ggaggcgatc aagcagtcgc cgtcgatgcc 240
gacgaccccg accacgccgg tgacgccgtt gttgtccacg ccgccgtgcg gcggcagcgt 300
gtggcgggagc gttttccacc ccgggagcaa cctggccacc aagagccttg gcgccaacct 360
cttcgatcgt ccgcagccca acttctccac cgtttacgac tggctttaca gcgacgagac 420
caggacaagg agcaaccacc 440

<210> 4945
<211> 485
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046b11b1

<400> 4945

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gtgagctttg taaggacatc aggatgatga acaagaagct tgggtgatttt gaattcctgg 180
atgaccatct cggcaaagat acaaccatga gcatttgtga ccggtctagt gaagaaaata 240
atcacaaaga agttgacggc gctggccttc aagaatcaaa tgaaatgcta ctggaggaga 300
tactcaagtt acatggaaat gtggaaatgc ttatgagcaa ggagaaggct tctgtcgaca 360
tcagatcctg caatgaggag atcacaaagt tggatatcca catgcaaag gccatcatga 420
atgcagttct gttcaaggag aagatcggtg agcttatcgt tacatgtgag agttatgaga 480
taagt 485

<210> 4946

<211> 253

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046c05b1

<400> 4946

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gagccattgt tactttacgg aggactccat cacaaaagat caactgagat gcacgcgtgc 180
gggcgatgag agaacaacgg aaccgcgaaa gcagcctgac gtggagaaga aaagcaccgg 240
ccctatgcgt ggc 253

<210> 4947

<211> 494

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046c10b1

<400> 4947

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cccggcgatg agcagccgaa gatctaccgc atgaagctct gggcgaccaa cgaggtgcgc 180
gccaaagagca agttctggta tttcctgagg aagctgaaga aggtgaagaa gagcaacggc 240
cagatgctcg ccatcaacga gatctttgag aagaacccaa ccacgatcaa gaactatggc 300
at ttggctgc gttaccagag cagaaccggc taccacaaca tgtacaagga gtaccgtgac 360
accacactga atgggtgccgt ggagcagatg tacactgaaa tggcctctcg ccaccgtgtg 420
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gacaacacca agca 494

<210> 4948
<211> 495
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: uC-tsro9316046d03b1
<400> 4948

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ttccgggatg ggtatgtaag agatttagct gaagatgttc tccagttagc taagaatgga 180
ttagaaagaa gaggatacaa ggaggttggg ttcctgagag aagtcgacga agttgttaga 240
acaggagtga cacctgccga gaagcttctg aatctatacg agatgaagtg gcagcgcagc 300
gtggaccctg tgttcgagga gttgttatat tgatatgctg atatcgtata taacttcggg 360
ggaagctgga caaggtggac agggcttcca gattgtatcc ccatacaaaa tcccgtcccc 420
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ttgaagctcg aacac 495

<210> 4949
<211> 354
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316046d04b1
<400> 4949

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gcgccacggg agacagggag gagaacccaa gacagaacga caccggagag gaggacgaag 180
cgcacgagga gaacaaagaa gacgaggagg aagacgaact gccaccaaag aaaaaccggc 240
gcaccgcgtg ggccaacaga agaggaggcc gatgacacga agccgaagct agggaccggc 300
cggcgctaca caaaggacta actgggaaaa ccccgagca tccaaacgga aata 354

<210> 4950
<211> 496
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316046d10b1
<400> 4950

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catagctgtc tgtgctgatg atcctgagta cgcacttc agagacatca gtgaacttcc 120
cccgcatcgc ctacaggaaa tccgtcgctt ctttgaagac tacaagaaga atgaaaacat 180
ggaggttgca gtgaatgatt tcctcccagc agaagatgcc atcaacgcaa tcaagtactc 240
gatggacctc tacggttcgt acatcatgga gggcttaagg aagtgatctc cagttggcgg 300
actgcggatg ctacgcgatc cgcctacgg cttatcaata gtacgacaaa catctatggt 360
aacatgatga tcgaaaacca tcagtctgtt ggggatctat ttataccttc tgtccatgct 420
gattaagcat gggtagatctt ttctttcggt tttgcatgt aggtccagtt tttgaccttt 480
gttggaacct ttttgt 496

<210> 4951
<211> 418
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316046d12b1
<400> 4951

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atcccccttc cctactctca ccaggagcag aaccacccg ctgggaccgc tccgtgtaat 120

gcggctccat gagccgcagg gccctcgcga cggcgcaggc gcccgcgag gcgggagag 120
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 taccggctac aactggcctg atgggtattt tgccaggcca tgtttcaca attgcagagc 360
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<210> 4954
 <211> 309
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316046e09b1
 <400> 4954

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 agccagcacc gcagacgcgg ccggcagacc ctgangagcc cggcgccaga caaccggccg 120
 aagcaaggcc caccggggcc aagagagcaa tgaggaggag tccacgacga aagaagaaca 180
 gattgcccgc ctccggacgc tgggggaaca acagaaccgc gatgacagcc cgacggggac 240
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<210> 4955
 <211> 490
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316046e12b1
 <400> 4955

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 tcaacctcca caagcgctc catggatgca cttcaagaa gaaggacca aatgccatca 180
 aggagatcag gaagtttgca cagaaggcca tgggaaccaa cgatgtccgc attgacgtga 240

agctcaacaa gcacatctgg agcagcggca tcaggagtgt cccgaggaga gtccgtgtca 300
ggattgcccc caagaggaac gacgaggagg acgctaagga ggagctgtac tctctgggtca 360
cagttgcttg aagtccccca ggaaggtctt aaaggttcgg gtaccaaagt tcgtggatga 420
tgaggactaa accccctggc tgttgattca atcagttaga atttaataca tattcgctga 480
gagcatattt 490

<210> 4956
<211> 477
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046f01b1

<400> 4956

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gccaggagga ggaggaggcg gggttcaacc tgctgccgct ggtgatggcc gccttcgtca 180
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cgtgctactg acgtggcatc atgggtggtg tgcggtggtg ggagcctcga cctcgatcgg 300
cggcgctcaa ggcaggcaag tggctgctac tgtggtggtg ggcgtttggt tgggtgctgg 360
atctttctga ctgatgcgtg ttgggttggg tggaagaata atctcaatct ctgctgaatt 420
ccatcggact gtaaagctaa agtcattctc ttgttgcaag tctatcttgt tgttaat 477

<210> 4957
<211> 545
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046f03b1

<400> 4957

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gaaggagaag gtggaggcgt cgtcgatcga cctggaggcg gggaaacggg agacgtctta 180
cccggggatc tcgcgcgggg agaacgccct ccgctggggc ttcacccgca aggtctacgg 240

catcctctgc ggcagctgg tctcaccac cgtcgtctcc gccatcacg tcttccacc 300
 caccctcaac gccacgtct tcaactcgtc cgtcctcgcg ctctgtctcg ctgtccttcc 360
 cttcatcctg atgatcccat tgtacatcta tcagcacaga caccctcaca atcttgctat 420
 cttggggttg ttcactctgt gcttgagctt cagcattggg gtgggtttgtg caaactga 480
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 tacac 545

<210> 4958
 <211> 359
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316046f11b1
 <400> 4958

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 ctgaagaagt acatggacaa gaagctcaa atcaagctga atgcgaaccg tgttgttatt 180
 ggcacgcttt gtggatttga tcagttcatg aatttggtgg tggataaacac tgtggagggt 240
 aatggagatg agaagaccga catagggatg gtggttctga gaggaatatg tgtggtgatt 300
 gattgaagcc tttgaacaa ttgccaggcc ttagcgatat ctttgacctac ctgcttttg 359

<210> 4959
 <211> 517
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316046g03b1
 <400> 4959

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 tccgtgtccc tccccacag ctctgtggaga agcagaaggc ccatgtggcg catcaagatc 180
 aaactcagcc ttaaaccagc tcttcatctt cttccttcat gctgagggat gctcccctg 240
 ccgcaaatac cagcattcat tcagcggcaa caggcgagag ggcagaggat gcggtagtgc 300

atccgcaggc cccaccccg acggggcttc caccgtggat ggtgagccac atcaacgggt 360
gaagggcatc cagcccatatc aggcgtacta ttcagtagag ggtaacaagt tgcaccggcc 420
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aattagagta aagtatcaag ctgcagcgat gtgtata 517

<210> 4960
<211> 283
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046g04b1

<400> 4960

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aagccttcac gatggcggtg gcggagctct gggagacgct gaagcaggcg atcttagcgt 180
acacggggct gaccccgacg gccttcttca ccgccgaggc ggtcgccacc gggctgtacc 240
acgtcgtgtc ggggatcttt gcgcgcgcgc cgtctccccg gca 283

<210> 4961
<211> 239
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046g08b1

<400> 4961

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ggaaagaaaa aatacacttt caagttttgt atgtagtact tgatgtatgt ctcaagtata 180
acttataatg atccaaaaaa acgagacgat atactggccg ccactaaga acaacaagc 239

<210> 4962
<211> 194
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046h02b1

<400> 4962

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cttaggtcat cacaaaagag ttaattgacg ttggtgatac aattaaaaaa aaaaaaata 120
aaaaataaaa taataaaaaa aaaatacatt attaaatatt gacaaaaaaa aaaataaata 180
aaagataaat aaaa 194

<210> 4963

<211> 202

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046h08b1

<400> 4963

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acataacccat ggccatgggt tctgtctgct cgagttcaca ggtagtgatc gtggctctcg 120
ccacggaagt atacatgcac gctgtagcta ctgatgacga caggatggc cccatggact 180
ctgactccaa aaagagcagt gt 202

<210> 4964

<211> 440

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046h09b1

<400> 4964

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tacgttggct cttggctgtc accatgatat ggacatgata tgcagagcga cattgtgcat 180
ggccattttc aactgctact tctccgttg ttttagtctg catataaaat ctggtcaaag 240
tcaaacttag taaagtttga tcaactttgt agaaaaaaaa attaatatct ataatacatc 300
atatagtatg aaaattaatt tcatgatgca tctaataatta ttgatttcat attgtgaatc 360
ttgatattta ttttctataa atttagtcaa agttaacaaa gtttaatttt gaccaattt 420
tatatgcaga ctaaaaagaa 440

<210> 4965
 <211> 479
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316046h10b1

<400> 4965

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ttcgtgacgg tggacaagga cgagcccatc aaccaggacc tcatcagcaa cttcatgtcg   180
gaccccgccc actgcgccat cgaggtctgc gccgagctga ggcccaccgt cgacatctcg   240
gtgacggtcg acgccgactt cgtgcgccct gagcttcggc agtcctccta ggctcgcgcc   300
ttgcacctaa gtttactaag cttgcgccgg gccggtcggg gcccgcagg agagttggtt   360
tttgatggat ggacattcat gggactgaat ggatgggtgc gactagctgg attgatctct   420
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<210> 4966
 <211> 524
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316046h11b1

<400> 4966

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tgtatacatg gggacttgga agcctggggc agcttgggca tcgctcgctt cagtctggag   180
ataaggagct aatcccaagg cgagttgttg cccttgaagg aatagtaatt agggatgtgt   240
cttgtgggtg gggtcactct tgtgctgtga cggaagggtg agccctctac tgttggggag   300
gaggacatgt gggccaactg gggcttggac ctcaaatgg tttcttttca tgcgctctta   360
atggatccga catgctactt tgtaacattc cagtctgggt cataccatca ggtgttcggc   420
ttggtacttg tggtcactca cacacactta tatcgatgaa agatggccgt atttatggat   480
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<210> 4967
 <211> 528
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316046h12b1

<400> 4967

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tggggacttg gaagcctggg gcagtttggg catagctcgc tttagtctgg agataaggag   180
ctaatcccaa ggcgagttgt tgcccttgaa ggaatagtaa ttagggatgt gtcttctggt   240
ggggttcact cttgtgctgt gacggaaggt ggagccttct actgttgggg aggagacat   300
gtgggccaac tggggcttgg acctcaaaat ggtttctttt catgcgctct taatggatcc   360
gacatgctac ttcgtacatt ccagacctgg tcataccatt aggtgtaccg cttgttactt   420
gtggtcactc acacacactt atatcgatga aagatggcgg tatattctga tggagc:aat   480
atatgtatgg tcaggcagtt tatgataaat ctactaatgc tggtcctt                   528
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<210> 4968
 <211> 301
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316047a07b1

<400> 4968

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tgatctgacg tgattggcgg atcgacgcgg cctcttcttc ttgtcagtca gacagt:agtg   120
attccgtttg agattatata tactgggggt cggggatcga attggcgcgc atacat:gtga   180
tatgcgaatg tgatccatgg ccgattccat ttgtaatttg ttgtaccgtg acatgc:atca   240
gcttatctac ttgattgatt ccatattata atattttttt ttttaactttt aattaatata   300
t                                                                    301
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<210> 4969
 <211> 278

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047a08b1

<400> 4969

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attgcttggtg tgggttcttt gaattctttt ccgtgtacgt tgacgatgcg aatttctctg 180
tggtttccat ggaccgtgtg aagagatttc agcttcttta tatgtactat gtatatgcac 240
tagtatcatg tatgggagtt tatgcataca gtccttat 278

<210> 4970
<211> 470
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047b04b1

<400> 4970

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ccagcccgcc gctgactgcg gcgtctacac gtacgggtac tcgaccgtta cggtggtgac 180
cgtcaccggc aaccacagcg agtacgagcg gatcaccaag gaggagaagc accacacgca 240
cactgagcac ctcagcgaga tgggcgcagc ctggggcgga gccttctacc tctacgagaa 300
gcacgaggcg aacaaggacc cggagcacgc gcacaagcac aagatcgagg aggaggtggt 360
tgccgacata gccgtcggcg ccggcggctt cgtcttccac gagcaccacg agatgaagca 420
tgaccacatg gaggccaagg aggccagcgg cgagaagaag caccaccact 470

<210> 4971
<211> 253
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047b05b1

<400> 4971

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gaccacggag ggcttgctct atcatgtaat ctgttctttt tcttctgccc atttatatgc 180
cgggccttat gctgctgcac tgcactgttc ctccaagtta cggttataaa taattaaatg 240
ttctgtttgg att 253

<210> 4972
<211> 464
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316047b06b1
<400> 4972

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagg gggggccctt ttaggggccc 180
cagttttcct ccccggggac gcccccaaaa ttcttttttt ttgggggccc caaattaaaa 240
ctatgggccc ctttttttcc accttggggg tgggaaaacc cgggggttcc cccacttaaa 300
tggcttgggg accccccccc ttttcccggg gggggatata tcaaaagggg ccccccaat 360
tcccctttcc aaaatttgtc cccctcttta tgggttatgg ggccccccct tttatggggc 420
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<210> 4973
<211> 298
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316047b07b1
<400> 4973

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cgatgtcatt gcttatctct gacggacccc ttttcatacg atgagctgtc tggacggctg 180
cggctactg gtgcacatgt tggcagctgt ttaagaccac cggctgcgaa cgagaaactg 240
gttctccgcg tagcagatct acaagaagct cttgctcaca cctaggccta aactatgg 298

<210> 4974
 <211> 524
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316047b09b1

<400> 4974

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 agtgaagacg gacatatttg gatatggtgt tatgttatta gagattgtga caggccagcg 180
 tgcaattttc cccgatttcc tcgaaggagc tggcgaggtc atgctcatcg atcaagtga 240
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 tgactttcaa gaactagtaa aaattatcca agtagcactc ctctgcacca atattgaccc 360
 ttgtcaacgc cctgctatgt cggaagttgt gcatatgctg gaagaaaaaa ttgtgcaga 420
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 gcagcaccac atattattca ccttcagtga ggagtcactg aaca 524

<210> 4975
 <211> 70
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316047b10b1

<400> 4975

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 agatcaagtt 70

<210> 4976
 <211> 52
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316047c03b1

<400> 4976

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<210> 4977
 <211> 538
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsro9316047c07b1

<400> 4977

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gcccccaata agctctccaa gatcaaggtg gtgcgcacct caattgagag ggtgctcagc 240
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ctcgacctgc gccccagaa gaccgcgcgc atccgcaggc gtctcaccaa gcaccagctc 360
tctttgaaga cggagagggg gaagaagcgc gagaagtact tccccatgag gaagtatgct 420
atcaaagcct aggttaggag gacatgtttt acccgccgag tttgctcaga agtngcatga 480
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<210> 4978
 <211> 255
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316047c10b1

<400> 4978

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aacatcctca gaattgacga aaaaataaac aaaaaaaaaa taaaatatta aaataaaaaa 180
aaaaaaaaaa ataatatata aaaaaaata tacataatat aaaataataa ataataatat 240
ggggggcccc tttta 255
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<210> 4979
 <211> 417
 <212> DNA

<223> Clone ID: uC-tsro9316047d03b1

<400> 4981

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cgcgctcctc atcgtgctgc tctgcatggc ggcgagcctc gcggagggga ggcgcggcgg 180
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<210> 4982

<211> 489

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047d04b1

<400> 4982

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gcatccacaa gagtggccgc gtggagcgtc tgcaaggcac cgagaccgtc ccgccctccc 180
cctccggtga ccccgccaac ggcgtcgcct ccaaggacgt cgtccttgac ccggcggcca 240
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accacaagta cgccgtcttc ctgcgcgtcg tcgcgccgcg cgtcgtcgtc tccgtcgact 420
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<210> 4983

<211> 483

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047d05b1

<400> 4983

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ctgctgaagg	tgttggccgg	gatcgacacc	aacttcacgg	ttacatcgaa	ggcaaacgac		180
gaggacggcg	actttgccga	gctatatgtg	ttcaagtgga	cgagtctcct	catccctccg		240
accaccgtcc	ttgtgattaa	cctggtgggc	atggtaggcag	gcatatcata	tgccatcaac		300
agcgggtacc	agtccctggg	tccactcttc	ggaaagctct	tcttctcaat	ctgggtgatt		360
ctccatctct	acccttcct	caagggtctt	atggggaagc	aagaccgcac	gccaaaccatc		420
gtcattgttt	ggtecatccc	tctcgccctcc	atcttttcct	gctgtgggtg	aagatcgacc		480
ctt							483

<210> 4984

<211> 388

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047d09b1

<400> 4984

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tgagcgtcct	tggcgtcggc	agcttcatca	gcagcttcct	catctcggtc	atcgacggcg	180
cgacgaggag	gggcggcggg	acgagctggt	tgcgcgacaa	cctcaacagg	ggccatcttg	240
attacttota	cctgctcctt	gctgctctca	gcgcgctgga	gcttcttgct	ttcctctact	300
tctccgcgac	ttacatttac	aagagaaagc	ctgtcaatgt	tcactgaccg	agactgatac	360
attcgtctta	tggtctactc	cctctggt				388

<210> 4985

<211> 473

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047e06b1

<400> 4985

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atgtcttgct gcggaggaaa ctgcagctgc ggcagcgcct gcaagtgcgg caacggctgc 120
ggcggctgca acatgtaccc ggaggttgag gccgccggcg ccaccctcct cgtctccgcc 180
accgccaccc acaaggcgag ctccggcgagg atggagatgg cggcggagaa cggcggctgc 240
ggctgcaccc agtgcaagtg cggcaccagc tgcggctgct cctgctgcag ctgctagatc 300
tatcatcggt catgcatgca ccgcgcgcac catatctatg atctatctac aatctactta 360
ccatgtaacg ccacctgacg gaggggtcttt gtatgtatgt aagcacctgc cagcatgagc 420
agagcagggtg cactgccatg catgtaaacc gaccctctaa taaaatcttc cgt 473

<210> 4986

<211> 456

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047e08b1

<400> 4986

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gcagccgaga tggacacggg tggcctgctg gaccattccc cggcagccct cggcccagac 180
cctcttccca cgccgcctcc accgctcgtg ttctaccaag acgattaccg gtactactac 240
gacgacgaca gttgcctcca ggaggaccag gagggcgacg acggcgccct tcaactgctc 300
caggacgagg aggaggacgt cgccgccacc agctcgttg ctgccaggct acgtgagctc 360
gttcgccaga agctggccga ggtgaacgcc tccagcgcgg tcgtcgcggg gctcggcctc 420
gtcgggagcg ccgtcggcgc ctactttctc tggccc 456

<210> 4987

<211> 81

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047e10b1

<400> 4987

tgccacgcg tccggcctag ttgcctggaa gaaattaaca aaaaaaaaaa aagaaacaca 60
accaaaaaaa aaaaaaagaa a 81

<210> 4988

<211> 383

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047f04b1

<400> 4988

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tttgggcat ggcggagttc aagcaccttt gcatggccaa gttcaaggaa ggcgtcgtgg 120
tggaggacat catccaggag ctccaccaagc tcgccgcgga gctcgacacc gtcaaatact 180
ttgggtgggg caaggacgtg ctgaaccagg aggcgctcac gcagggcttc acccacgtct 240
tcgtcatgac cttcgccagc gccgaggacc tggcggcgtg catggggcac gagaagcaca 300
ctgccttcgc agccaccttc atggcggcgc tcgacaaggt cgtcgtcatg gactttccct 360
tagtcttcgt taagccggcg ccg 383

<210> 4989

<211> 502

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316047f06b1

<400> 4989

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tgtgaggagg atttggttgc aatcatgtag acagagtttt gcgaagatgc ttgctgagaa 120
gcaattcagg gagacagagg agatgagggc caaggcacag atctctcatg ccagccaga 180
tgatcttatt gacttctacc acctcaagag cagaaagggc atgagccagc ttgagttgga 240
ggacgaggtc caagatgatt tgaaggctgc aactggtgga ttcaccaagg aaacagatga 300
tgcaaataga cttaatcgca ttcttcagtt gactgggttc agtgatcctg tatatgctga 360
agcatttgtg acagttcatc attatgatat tgtacttgac gttactgtcg ttaaccgcac 420

ataggagaca cttcagaacc tgtgtttgga actagctacc atgggagacc tcaacttgtt 480
gaccgtntctc agaactatac tt 502

<210> 4990
<211> 362
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047f07b1

<400> 4990

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gtgcgggaag atgtaccctg atctgacgga gcagggcagc gccgacgtcg aggtcgccgc 180
cgtggtcggt ctctgcgtgg cgctgagaa caaggcggga cagtctgagg tggccgtctg 240
gcagtccggc gagggctgca gctgcggcga caactgcaag tgcaaccctt gcaactgtta 300
agctgcatgc actcgctcgt agtacgtgtg atgggtgtgag agaatacgtg attaactagc 360
gt 362

<210> 4991
<211> 553
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047f09b1

<400> 4991

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tggtttgtgg tgttctaaga agttcccaag ctcgatgcata cagtgttgac cccttagtca 180
cctgctacgt ctgcatccag cacagcacac acatcaccat caccatcacc aatgccatgg 240
cgcgccccctc ttgctgcatg cggttgccac atatcatttc ttctgagcct tctgtgttcc 300
tgttcgattg gtggagcatt ttggactaga agcggctctt tgtaaattta ttgtaccgct 360
ttaagattag taggggcatg gttcttcttg atgtgtaagc tatgattgtt tgtgatcatt 420
tgagatgtg attgtatgtt ggtaaaaact aacagggttg atattgaaga gcaggcgagg 480

agattgtatg ggttgagaat acagagtcaa gaattctaga atctgttggg gcctgagttc 540
 tgttaatcat ata 553

<210> 4992
 <211> 546
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316047f12b1

<400> 4992

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 cgcgctcgcc gagctcggtc gcgctgcggt tcggatcccc cggaggcggtg cggcttcggc 120
 gcgggcgagg gtcggcggcg gtcgcatgg catccgacgg gcgctggag cggatcgct 180
 ccagcatccg cgccatcccc aacttcccc aagcagggat tttgtttcag gacatcacia 240
 ccttgcttct cgatccgcag gcattccgtg acaccactga cctctttgtc gagcggitaca 300
 aggacaaaga cataactgta gttgctggtg ttgaagccag aggattcatt tttggtcctc 360
 ccattgcatt agccataggt gcaaagtttg ttccaataag gaagccgaaa aaattacctg 420
 gtgaggtgat atcggaagaa tattctctgg aatatggcac tgacaaaatt gaaatgcacg 480
 taggagctgt gcagtccaat gaccgagtc ttattgggtga tgatctattg ccacaggggg 540
 aaccct 546

<210> 4993
 <211> 492
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316047g02b1

<400> 4993

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 gtcacgagt atagcaccga gaatctcgag ccgcccattc tgacaataga ggatgcacac 180
 caacatgaca gctacttcca tctccccca tttttggctc ctaagccagt tggggatttc 240
 gagcaaggga tgtctgaagc tgatcacaag attttatcag gagaggtgaa acttgaatca 300

cagtactact tctacatgga gactcagacc gtcttggccg tccccgacga agataactgc 360
atcaccgtct atggcctaac tcagataccc gaggtcacgc agaatgtcgt cgcggactgc 420
ctcagcattc cgtaccacaa tggtcgcacg gtaacaagaa gagttggcgg cggttcggc 480
gggaaggcaa tg 492

<210> 4994
<211> 275
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047g05b1

<400> 4994

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attgtttgtg tcgatctata attattgttt gatttgcact agggatcgct gcttggtaaa 180
atttgcggag cctgctgctg gattttcaca ctaaacagag actaaaaaag aacaggcgct 240
acttgtggca aagataaaag atgatactag attcg 275

<210> 4995
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047g06b1

<400> 4995

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aaaggtagcc gccgcctccg tcgacatcct cgactccgcc gccaaagtacg gcaagctgga 180
ggacaagccg gtggggcagc acctctagaa ggctgagggg tacctgaaac agtacagctc 240
cggcggcacc gagaaggaga aaaccgacgc acctgctgcc gctgacgcac cgaagccgga 300
tgcacccaag gaggcagcgc ctgcgcctgc ccctgccgcg gaggaagaga aatcgtccga 360
tgggttcggt ctcgacgacg tcatgaaagg ggctgcatcg ctgtctggga agaagag 417

<210> 4996
<211> 344
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047g08b1

<400> 4996

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cctttaatct gaacacgcgtc tcgttcagta gattggctgg ttcgtgtctc gcgtgcaggg 180
tgtatttgtt tcctttaatc cttctcatca ttcgcttctg ggtggttgcc gtaattagtt 240
gcgagggatc agtggacgat ggcaaatgat gatcgtagat gatgttgatc gggagagaac 300
aatgaggcat gaataagcag tcgtgtgtgc attcctctta tctc 344

<210> 4997
<211> 123
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047g09b1

<400> 4997

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acggccattc ctgacagagc cggacagccc ctatactga tgaccgtggt aagaacgaac 120
ctc 123

<210> 4998
<211> 256
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047g10b1

<400> 4998

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tgcagttgca tcgtagtggg acagccagtg tgtcggttga cgggtgagtg gtaggttcct 120
atcatggctg cgtgatagca gcgcgcataa tgaataatgg aatgtgctgc ttagccccac 180
gaagtctgca tcgtgcccta cctccctgaa tgatgtgcac ttgaagtctt gagcatgcaa 240

gttcagttta atgccc

256

<210> 4999
<211> 409
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047g11b1

<400> 4999

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aagaggctca atgccccgtc tcattggatg cttgacaagc ttgggtggagc ttttgcccc 180
aagccatcat ccggtcctca caaggccagg gagtgcctgc ctctgaccc cctcctgagg 240
aacagactga aatatgctct cacctaccgt gaagtgcaat ctatccttat gcagcgatcat 300
attatgggtg atggaaaggc ccgactgac aagacctacc ctgctgggtt catggacatc 360
attttcattc ccaagactgg tgagaactac aggcttttgt atgacacca 409

<210> 5000
<211> 564
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047g12b1

<400> 5000

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agaggtgggt gggcctggcg gtggacttct cggaggggag ccgcgcggcg ctgcagtggg 180
cggcggacaa cctgctccgc tccggcgaca acctgctcct cctgcacgct ctcaaggacc 240
ccgactacga gcaggggcag acctcctctt gggaggcctc cggtctgctt ttgatcccc 300
tctcggagtt ctctcacctt tcaactgcaa agaaatatgg ggtgaagcct gatgctgaaa 360
cgctggacat gctcaacact atagctaagc agaaggaggt ctccgtgggt tcaaaagtcc 420
tgtttgagga tccccgcgag aagctgtgcc aagccatcca tgacatgccc atcagctccc 480
tggtcattgg gagcaggggc cctggcaagc tcaagagggt gctcttgggc agcgtcagcg 540

attacgtcgt gaacaatgcc gcct

564

<210> 5001
<211> 214
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047h03b1

<400> 5001

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tcgaccgcgc ttcctagctt tgaatgatcc tggggctagt gagccgacta gataggaaag 120
cgaggctgga ttaacaattt gaagccgata atgttgaaac agtgtatgac tagctaacta 180
tgtacttata tatatatata caaacaagga tggt 214

<210> 5002
<211> 229
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047h04b1

<400> 5002

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gataactgaac aactaactg aaaattaaac ctaggtaat taaatgagat agtcttaaag 120
atccaaaaga tataaaaata tgaaaccgag taaaagaaa atctggaaga cctgattcat 180
attgaataaa aataaaacct aacagagatg aaattctaata ccaaacaaa 229

<210> 5003
<211> 304
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047h09b1

<400> 5003

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gccatggtag ctagagccgt actactcctg gccatggtgg ccgtggcaag cgccacctac 120
tgccccccgc cgtcggcgcc ggtgccggtg cccctctacg ggtcgtgccc ccagaacgcg 180

ctcaagctgc acgtgtgagc caacgcgctg aaccagggtga aggccaagat cggcgtgtcc 240
gcaactgagc cctgctgctc tcttctagac ggtctcgtaa accaggacgc ctcctatcgc 300
cttt 304

<210> 5004
<211> 500
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316047h10b1
<400> 5004

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tcgtttgttt caaaatgatt tatcaactcg accgcgtgtc caaatgatga accgctttca 120
cctttgtgtt tctcgcgcct aggttttcaa aactcgggtcc actttggtag gttttgatga 180
acagttttct gcaaaatcta tgctccaagc tgtactaatc catgcttcaa aactgactaa 240
aatgtgcttc aaactatact aagggtgtgtc tcactttttt tgggacgcac agtcgctttt 300
tcacatgagt agcacatgtg tgcttcacac gaaaaacat aataaaagaa ccgaagatag 360
aaaaaactgc aaattgaaaa ttcatttaca attaacatag atcaaaaaaa tggaaattaa 420
aaaaccaggt accataaaaa aatctgaaat tcaaagtga gaccaaaaaa gctgtaatac 480
cagcttttac cctgacactt 500

<210> 5005
<211> 240
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316047h11b1
<400> 5005

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cgcagggcgg cggtcgtac gagaaggact acaaggagcc gtccccggcg cccctcttcg 180
aggcggagga gctcacctcc tgatccttct accgggcccg catcgccgtg ttcctggcca 240

<210> 5006
 <211> 466
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316047h12b1

 <400> 5006

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 ttccagaagc atgcttgccg tgccttcttc cgggtgcacc ggaggccggc atgtgagcag 180
 ggggtgcttca gtgatgcaga agaaaaaagg caagtcttat tggcaaggga aggctacgcc 240
 tttcttccag gtctccctct ctccatctaa atccgtgttt ggaggagggg gctacgggta 300
 gtttaccac cggtttaccg tgtccttggt agttgtgggc attatcatgc actcgtcagt 360
 tgcttgatcat gtatgggtgtc cttgaatttt cagctacata atgggtcggtt gggtcagtga 420
 atgtgagtgt gttcatgtga gtcaattagc tacaagaagt gtgatg 466

<210> 5007
 <211> 573
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316048a03b1

 <400> 5007

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 cggtcatacc ctctataccg gttcgttcgc aaggagctgg gaacgggtgta cttgacggga 120
 gagaagacac ggtcccccg ggaggaggtg gacaagggtg ttgttgctat gaaccagggt 180
 aagcacatcg acgcgctgtt ggagtgcctc aaggagtgga acggcgagcc cctgccctctc 240
 tgctaatacag ggagatgaag agaagatgct gtgcttcagg attctgaagg ctcccggttg 300
 tctgaactga taatgctact gttgtttgat ttcgtccttt ctctgttttt cactcttct 360
 aaaacgttgg tgcattgaac gttctttcgg agctagaggc cattgccaaa gattgcactc 420
 tgcaatactt gtagcgcaac aacttgagct tgtgccaatg taagcgaaag ggcacaaatt 480
 ttcattgtaa atgtgatgtt ctgctactga atcccaacgt tagacttact gatgtcctac 540
 agcacatttt ctggttcaaa aaaaaataa aaa 573

<210> 5008
 <211> 190
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsro9316048a08b1

 <400> 5008

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 actagtgtca ccaactgtgc cctagcgctc gtgctgatgc tgctcctggc ggcgcccgcc 120
 ggcgtagccg cacaaggaag aggaggaggc tacggtggcg gcggaggagg atatggtggt 180
 ggtggcggtg 190

<210> 5009
 <211> 428
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsro9316048a11b1

 <400> 5009

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 cctctacgcc gtcggcgggg gccgcaaggc cagcgacatg tacaactcga cggccgagga 180
 cgtgctgtac gtgctcaagg agagcagcga cgacgaccgg cagcactggt actcgctggg 240
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 ctggctgcgg tacgactggg gcaagtacta cgcgttcaag tccttctacg acccgtgaa 360
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 tcaggggt 428

<210> 5010
 <211> 407
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsro9316048b03b1

 <400> 5010

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 ggaagcttgc atcaaggagc ttgtcaaggg attaggcatg aaaagtggat ttgtattttt 120
 atttacttgt ttggtttatg atgaaaaaaaa aaaaaaaaaa tagaaaaaaaa aaaaaaaaaa 180
 aaaaaacata atgaacaaaa aaaacatata aataaattta aaaaaaaca aaaaagaaat 240
 agggggcgcc ccttttttaga ggacccaaac taacttcccc tcgcatgcac caacttagtt 300
 tttttatagg gcccccaaaa caaatgaac gggccggctt ttaacatccc caggtctgga 360
 aaaaccctgg tgatacccaa ttaatacgct tggaaaataa ctccctt 407

<210> 5011
 <211> 479
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316048c02b1

<400> 5011

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 gggatatttt gaggtgaagg ccacggctgg tgacactcat cttggtgggg aggactttga 180
 caaccgtatg gtgaaccact ttgtccaaga gttcaagagg aagcacaaga aggatatcag 240
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 ttcttccact gcccaaacca ccattgagat cgattcactc tttgagggag ttgatttcta 360
 ttccaccatc accagggcca ggtttgagga gctcaacatg gacctcttca ggaagtgcac 420
 ggagccagtg gagaagtgcc tgagggatgc caagatggac aagagcacta tccatgatg 479

<210> 5012
 <211> 492
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316048c06b1

<400> 5012

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ttatggtgcc agtttgcgta agcagatcaa gaagatggag gtgtctcagc actccaagta 180
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 cactgtcagg agcactatcc gtcgcttgag ggagcagact gaagcataag ttgctactag 360
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 <212> DNA
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 cattgaagac gttcgacctg ctggaggcgc caagaagttc tctgctgcat acccgaactg 180
 cgcaagaag ccacctgat atcgtttttg gcacccctt ctgtagttt aggattttta 240
 tgcaatttta ttctgactct tttctccac caatctctct ggcttgctgc ttcacgataa 300
 tcgaccagtt ctctagtctt tctccctctg ttctctctg ctctgctctc tgactcgaac 360
 tgcaacaatg gctgccccga cctctgcgat cgggtttgag ggctacgaga agcgccctga 420
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<210> 5014
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 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316048c09b1
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 cggcaacggc tgcgggcggt gcaacatgta ccccgagggt gagggcgccg gcgccaccct 180
 cctcgtctcc gccaccgcca cccacaaggc gagctccggc gggatggaga tggcgggccga 240
 gaacggcggc tgcggtgca cccagtcaa gtgcggcacc agctgcggct gctcctgctg 300
 cagctgctag atccatcatc gatcatgcat gcaccgtgcc gtgcgtgcat catcgatccg 360
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 aacctccctt gataact 497

<210> 5015
 <211> 57
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316048c11b1

<400> 5015

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<210> 5016
 <211> 487
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316048c12b1

<400> 5016

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 cgcacgcgcc gcaggagctc aacagcccgc gcggcagcac cgccaagccc aagaaccccg 180
 acgagatcct ccgcgacttc cagcgcgtcc accctccga cgccttctcc acctccttcg 240
 gcggcgggcg cgccctcgcc tgcgtcgccg cgcagccccg caacctcgcc gacggcgggt 300
 accagaggat gttctgcggg ctggacgaca tctactgctt cttcatgggg acgctggaca 360
 acctgagcgc gctgatgcgg cagtacggtc ctacggggcg cttcaccaac gaggcgctgc 420
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tgaagga

487

<210> 5017
<211> 409
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048d03b1

<400> 5017

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aagcagcaaa gaatcaccca actcgctgtc ccaagatctt gttcctctag acaccatcaa 180
cacgtccagg cagtacaggc tgtgacttgc taatggcaca gcattctcat atgctgctta 240
ttggttgatg accattcatc aacatgattt agtcctcttt gctctcgtgt cggtttgggtg 300
gcttccccgt tgttcgtact tttatgttgt gtcaccacta ggatttatct acttgaaca 360
gacctaaagt aatgacctat taagctgagc aaacgatttc ctttgcaag 409

<210> 5018
<211> 274
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048d04b1

<400> 5018

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aaggagcacg aaagattcac ccagcgaggc ggacgaagag ctagatgagc tggacaccat 180
cgacacgtgg aggcagaca ggctgcgact tgcataatga ccaggactct catatgcctg 240
gtattggctg aggaccattc atcaacatga gtta 274

<210> 5019
<211> 217
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048d11b1

<400> 5019
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 ttgttgcttg tgaaattgta agatctgcac tactgctcat tgtggatcat gaacgatgtg 120
 gcttcacaac agctcctgag tcagtttcgc actttttttt cgcaataaa tgagatttta 180
 ttgcttaaaa aaaaaaaaaa attaaaataa ataaaaa 217

<210> 5020
 <211> 472
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316048e01b1

<400> 5020
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 ccagaagggt cttcagaact acaagaatct tcaggatatac attgccattt tgggtatgga 180
 tgagctcagt gaagatgata agatgacggg tgctcgtgca aggaagatcc agaagttcct 240
 gagccagcct ttccatgttg ccgaagtttt cactgggtgct ccaggggaagt atgtggacct 300
 aaaggagggt gtccaaagtt tccagggtgt tttggacggc aagtacgacg acatctcgga 360
 gcacgcgttc tacatggttg gaggcacga cgaagtcac gccaaaggcag agaagatcgc 420
 cagcgagaat gctgatgac gaggtgttac caccgctctg tacaagttaa at 472

<210> 5021
 <211> 240
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316048e03b1

<400> 5021
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaatataaa taaaaaaaaa aaaaaaaaaa aataaaaaa aaaaaaaaaa 180
 aaaacaataa aaaaaggggc gcccttttct atatacaaaa attaccccc ccctatataa 240

<210> 5022
 <211> 502
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsro9316048e05b1

<400> 5022

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tgaccacctc aggcaggtgt tttccactca gatgggtttg agtgaccagg acattgttgc 180
tctttctggt gggtcacacc tgggaagatg ccacaaggag agatccggct ttgagcgagc 240
atggaccgcc aatcctttga tcttcgacaa ctcttacttc actgagctcc tgagtcgaga 300
gaaggaaggc cttcttcagt tgccgaccga caagaccctt ctgaccgacc cggccttccg 360
cccactagt gacaaatatg ctgcggatga ggatgcgttc tttgctgact acgctgaggc 420
acacctcaag ctctccgaat ggngatttgg cgaggcgggc tgctgctgat tcaagctcgg 480
cgcctgaagg tcggtggtaa tg 502
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<210> 5023
 <211> 330
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316048e09b1

<400> 5023

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ttaagtggaa ggagggaatg gaaattaatg ggaatgccat taagaagaaa ggaagcaagc 120
gcccattggt tgaagaaagt ttcttcacct ggttactga tacagagcac aagagccttg 180
ctgacggggg gcaagatgag gtggcagaga tcatcaaaga agatttgtgg ccgaacccat 240
tgaaatattt caacaatgag gttgaagagt ttgaaggaga tgactaggat gaagagggat 300
ctgatgggga ggatgctgag gaggatgagg 330
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<210> 5024

<211> 434
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316048e11b1

 <400> 5024

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 acctcctgca gcgccggccc tgtggcggaa gatatgttcc actggcaagc gacgatcatg 180
 ggtccatcgg aaagcccata tgctggtggt gtatttttgg ttactattca cttcccccca 240
 gactacccat tcaagccacc caagggtgca tttaaaacaa aggttttttca cccaaatata 300
 aacagcaatg ggagcatctg tcttgatata ttgaaggagc aatggagccc tgcattgaca 360
 gtttcaaagg tgcttctttt aatattgttt ctactaacgg acccaaaccg cgaccacccg 420
 ttggttccgg agat 434

<210> 5025
 <211> 399
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316048e12b1

 <400> 5025

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 ggcaacgcgc agaagtccaa gatggcgagg gagaggaacc tcgagaagct gaaggjcggc 120
 atggggagcc agctcgaggc caacaagaag gccatgaaca tccagtgcaa gatatgcatg 180
 cagactttca tctgcaccac ctctgaagca aagtgcaagg agcatgccga ggcaaagcat 240
 ccgaagagcg agctcgtcca gtgcttcctt cacctcaagc agtgatatct gcccaatcag 300
 acagagagag agattaaaga gagagagaga gagaagctgt cataatccac ctactattat 360
 catgttccgc aatgactgat tgttgaccta aagcttggg 399

<210> 5026
 <211> 514
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316048f03b1

<400> 5026

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gttaggtttg tttgttccga gccactgta ctgatcagtt cgataaagga gatatcttcc 120
tgcaagtatg ttttaactgt ccaaagccca atgctctgca agaaccggtt gtttcagcag 180
gaaaagcgca ccttcttcat ccactgcaac gagtcgcttg cggaagcaga agctgaggcc 240
gtcgaggacg acgactctct cccaaaagaa gctcagatgt ccatcgttcc aaaccccgac 300
gaattgcata actacgcagc ttacgctacc tgattgcccg ccaatcacgg tgccctcagc 360
tgatgaaaga tgccgttatt ttggaagtac aacagcaagt tggcaacata gtataactat 420
cccctggctt gttctgtctg acgccaacta gtggttacag ggtactcttt gagcagatat 480
ccattactga aacagcttga gattacctta gagg 514

<210> 5027

<211> 515

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048f12b1

<400> 5027

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ccttcaacat caagaacaac tgtggcttca caatttgcc ggcgggcatc ccggtgggtg 180
ggggcttcgc gctgggctca gggcagacgt ccagcatcaa cgtgcccgcg ggcaccgaag 240
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gtttaaacct tgccatggac ttttcgtgca gtaccggcga cgcgctccag tgcaaggact 480
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<210> 5028

<211> 386

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048g01b1

<400> 5028

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cgtggtgggg tacggtatga agtaccgaa gcggctgcac caccgcgggg cgtccacgcc   180
caagaacggg atcaagtact cgtgcaccgg cggaacaag tggcgcgact ccaagaaggc   240
cgaccctcac gtgctcgtcg gcgccatggt cggcgggccg gacaagaacg acaagttcaa   300
ggacgcgagg atcagctacg cgcagaacga gccacgctg gtcggcaacg ccgggctcgt   360
cgccgcgctc gtcgcatca ccaaca                                               386
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<210> 5029

<211> 205

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048g02b1

<400> 5029

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tttcagcttc tttatatgta ctatgtatat gcactagtat catgtatggg agtgtatgca   180
tacagtactt attgttgaag tttat                                               205
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<210> 5030

<211> 416

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048g09b1

<400> 5030

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cgttcctctt cacgttcgag tgtgtgagat gagggccata cacgaaagct ctgtgaccag   180
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gcttccgacg ccggctggga tgcttgcttg gcgcaagatg ccgacagcaa ggatggctgc 240
acgactgcta ccaagaccaa catggtcatt ggcttgggag agatcaccac taaggccacc 300
gactactacg agaagaacat gcgcgaaacc tggcgaaaca ttggctttat ctatgatgat 360
ggtagggctcg acaccaccg ttgcaggtgc gtcgtacatc gagcagcagt ccctctg 416

<210> 5031
<211> 272
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316048g11b1
<400> 5031

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attctgagtt agagagtatc tgttcatctg cacgggggtgc aaatatcagt ttctgtacca 180
ccatggagat tactatctga aatggagtct gcttttctca acggaaacca aaagactaac 240
aggtagtcca atatgtataa ctttaataata tg 272

<210> 5032
<211> 55
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316048h01b1
<400> 5032

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<210> 5033
<211> 485
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316048h02b1
<400> 5033

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cgggagcccc agcacgtgcc ggcgcggggc gtactcacag ttcttcaaga gcgctgccc 180
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<210> 5034
 <211> 134
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316048h03b1

<400> 5034

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 acgtgaccct gcac 134

<210> 5035
 <211> 375
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316048h07b1

<400> 5035

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 tatgacagta cgtggtagct tccaggattt actagacaca gaaaagcaca tgaatgctct 180
 gtaagcgtca acaagaccct gctgtcggat ttgaggctgc gatggattaa cgtgtgcttt 240
 ttgacacact cgtattggag gctctatgag gcacttggcc atatttacat atgagtactg 300
 atgtattgag aacatgcaaa ctatgaggaa tttctgcatg ctgtattaca gtttagcagca 360
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<210> 5036
 <211> 395
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
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<400> 5036

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 gaccatggac ctgcagctcc tgctccaccg cggcaagatc gtcggcaagg ccctcagcag 180
 gctcatgagc gccacagcc accacgacca ggccgcctcc aggtcggctc cggaggcacc 240
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<210> 5037
 <211> 75
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316056a03b1

<400> 5037

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<210> 5038
 <211> 419
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316056a05b1

<400> 5038

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gggcgcgccc cctcgtctcc tcaggtagcc cgtcgaggcg agcttctgcg tggagtcgct 240
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ccgaggcctc ggggtggtca cggaagctga aattgatggg gtatgatgct gacctgccaa 360
cggagccagg agattactag tctttcagga tgagctgaca cagaaaggaa gcatgcttt 419

<210> 5039
<211> 362
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056a06b1

<400> 5039

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tgaggagagtg ggtcgagtga tcgggcgggc gggtcgcatg agcccgggtga gcggaaagct 240
gcgggtggctg tagagggcgc acgcgcgggt cgttggctgc tcgcgggact tctacgtgcg 300
gagcatcact ggggtgcgcgc gctacgttca cgccgacgcg gaatgaggcg cctaccgggt 360
gc 362

<210> 5040
<211> 450
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056a07b1

<400> 5040

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cccggagaac ggaggcaacc tgcactgctt cacggcgctg accccttgcg ctgttttcga 300
cgtcatggga ccccttaca gcagcgctgc tggcagggac tgccggtact acagttagac 360

caccttctca aacacagctg gtgtggatga cgtgcggtac tactggctca aggagattcc 420
caataccttg cggatgaagg gcgtaacgat 450

<210> 5041
<211> 485
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056a09b1

<400> 5041

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aaagtatggt ggccagacga tgagatgttt tacaaggggtg ttgttgactc atttgatacc 180
cattccaaaa ggcacaaggt tgcataatgat gatggagatg tagagggtact gctgcttagg 240
gatgaaaaat gggatttcat cagtggaggaa gaaggcaaaa ctcttgatgt accatctgag 300
cgccgtggtc gaaaaggag aggaatcacg ctgctgccag tgaaggaaga aaaaattgaa 360
acacctaata gtgacggagt ggagcttgca aagaaaaggg gctcgccgaa aggttggcgc 420
cccacaatgg tggcacaccg tgtacaactc ccagtaaate aaaggggaaa actgctgtaa 480
ggatg 485

<210> 5042
<211> 291
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056a10b1

<400> 5042

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tgaggagatt acacgctgcc ttgatggccc agctctgggtg ctgatgaaga tgaatgctgt 120
ggaagatatg gtcgtgtggg aataagcgag tggatgatgt accacttaag tggggcacta 180
gtgactgcat ggtgcctaca tgtgatgtgt gcttgtggga atatttctat aagcatgtaa 240
tgtttcgtct gtgttaacgt gaacacacgt gtccgtgtga tttctattgt c 291

<210> 5043
 <211> 256
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316056a11b1

 <400> 5043

 aggactcgtg gggccgagac caggtgtagg gttccccaac tcttgttttc cagcgaagcc 60
 agcgagagcc taccaccagt acagatggag gctgcagtgc cagcggacgc gaaggcagcg 120
 gctgccacga gggaccttct ctcgagacac aaccagtctg tggagtctga gctcggcgag 180
 taatgcgatc acacggaaga tcgcgacgaa gctggccagc aaggggagga tgactgggat 240
 tatgacaacg tcaacg 256

<210> 5044
 <211> 443
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316056a12b1

 <400> 5044

 tcgcggacgc gtggggccgc gccaggtct agggttcccc ctttcttctt ctccacgcga 60
 atcagctaga tactagcacc agcatcgatg gcggtggcag cgccggcgga cgcaaggcg 120
 gtggccgcca atatggacct cctcgaggac gacgacgagt tcgaggagtt cgagatcgac 180
 caagaatggg atgacaagga agatggcaac gaagctgtcc agcaatggga ggatgactgg 240
 gatgatgacg acgtgaacga tgattttctca ctgcagctga ggaaagagct ggagggaggc 300
 aacactcaga agagctgaac tatttcccat ccatatcaaa gctgtcgtaa actttatctt 360
 cgatcaggca ctgtgtggcc gttgctctct ggacctgcga tactttccta gncatatcaa 420
 gctctgatac ttatcttcgg ttc 443

<210> 5045
 <211> 321
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316056b01b1

<400> 5045

ttgttgaaca tgtggcagga gcccttgaac cccggcaact ggaaggaaga gcactttgtg 60
ctaaccagct tagcgatgtg gggcgctatt atatatggtg gattgaaggc gtctgcggg 120
aaaaatgaag tgaaaaccga ggcgggggtca gtgccagcag cagcaccggc acattaaact 180
tcatgagagc tttattttct taccacaatc ggttttaagt atgttggtga cgataaatcg 240
agaccaagtt ggctggcaag gttaaggagc tgcgctgccc agccaccatg aataatctga 300
acgtggtgta acttttcatg c 321

<210> 5046

<211> 392

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056b02b1

<400> 5046

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cctctaactg attcgaccaa ccaagactat gatgagctac ggagaagatg agcaagctgt 120
ggaccatgct gagccacctg cacaccctcg aagggcctgg cgtgatgctg ctgttc:ccgc 180
tgtatgcgtg ggtgcttgcg atggcgagcc cgtcgaagct ggacgactag cagaggctgg 240
cctactggat cctctactcc tgtgtcaggc ttgtgctgat ggtcctcgag tacttcatct 300
actggatacc gacctggtac gcgctgaaga tactgatcgt ggcgtggctg gcgactgtca 360
acttaaggga gcggtcttat atacgacagg tt 392

<210> 5047

<211> 360

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056b03b1

<400> 5047

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ccggcggcgc cgctgcttgg agtggggatg agaggggcgc ttgggctgat catgtctata 120
gtagtagtag gtgtaggtgt gccgttttag tggatgatagg acttgtgccg tggattggcg 180

tcattgccgtg ggggagttgg tcaccggagc ttgcaagcag cttctgctga tcaccgttgg 240
 agcctttctgc tctgcctcca tggaggaggc ctaaggaagg agccgcatct ggcgaaatccc 300
 cccataataa gatagctggg ccactggaac aaacctggtg gacatactat acttcctacc 360

<210> 5048
 <211> 95
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316056b04b1
 <400> 5048

ttgattctat taacattaag gggaaaaaaaa ggagaaaaaaaa aaaaaaaaaat aaaaacaaaa 60
 aaaaaaaaaa aatgaaaaa aatgaggatg agtcg 95

<210> 5049
 <211> 413
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316056b07b1
 <400> 5049

tcgcgtagct ctcttgtgaa ggatactcct tttcacggca aacgttgtct gcagtttcca 60
 gccgaagagg atactgaggg gttcgacaat ggaacacaga gaatgatatg gttgagtcga 120
 cctccatagg atcgccacca ataagctcat gcaatcctta tcagtgatga tgcaagtttt 180
 ggacaaggat cttcattcat tcgaagcact gatgatgatt taagttagat gtgtgtcaga 240
 cgtgctttaa aaccatcatg cttattctgc gtgtaatgtt gtttaatgca tattgatcct 300
 tctagttgtg tatctatgcc atgttagcat cggatatgtc agtaatatga tttaaaacca 360
 tcgtacttat tctaatatgc atattgatcc ttcagttcag gccagtaaaa atg 413

<210> 5050
 <211> 239
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316056b08b1
 <400> 5050

ttggcgcggt gctggggggcc agctaccacg tgggtggtgat caggggtcatc gcttttaaga 60
gccgtgactg gtccttccag gagctgcgaa tggaatctga tcgctgttca tcgtcggtcg 120
atcgattatg tgggtggtgga ggtggctgct gctgcgcgcg tacgtggatc atctgtctgt 180
cgcgcacgct gtaatatattc tncatccgcc gtgcatgac tatgatacgt gtgtgtgcc 239

<210> 5051
<211> 498
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056b11b1

<400> 5051

tttttgcat ttcgattgga atcgagacca gctccgctgc ctgattagcc ggccggcccc 60
ggccccgtct ccgttcccat ggcgtccaag cggatcctca aggagctcaa ggacctgcag 120
agggatcccc ccacctctg cagcgccggc cctgtggcag aagatatgtt ccactggcaa 180
gcaacgatca tgggcccacg ggaaagccca tatgctggtg gtgtatttat gggtactatt 240
cacttcccc cagactaccc attcaaacca ccgaagggtg catttaaaac aaagggtttc 300
cacccaaata tcaacagcaa tgggagcata tgccttgata tcttgaagga acaatggagc 360
cctgcattga cagtttcaaa ggtgctcctt tcaatctgct ctctactaac agaccggaac 420
cccgacgacc cgttgggttc ggagattgca cacatgtaca agagtgatcg tgcgaagtat 480
gagtccacag cgaggagc 498

<210> 5052
<211> 301
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056c01b1

<400> 5052

tcgttcacgc gtccgaaaaa aaaaaaaaaag agagagaaaa tatataagag aaaaaatact 60
agaaataaag gtgaaagaag cacaaaacag catacatctt gcacatggga tggaacgttc 120
ggtctcagct gaagcgtgca ctgagaaaat ataagcaggc catcaaaaaa gggggggggc 180
cctttcaggg ttccagggtt caccatgtcg ctcggtaagg gaattcattt tttttagggt 240

ggccctgttt atattcacgg gggcgtgttt caaacagctg ggtaccggaa aaccatcgct 300
g 301

<210> 5053
<211> 506
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056c04b1

<400> 5053

tcgctcacgc gtccgcgtgc gtgcgtgctc catggtgagg tcgcttcctg ctgtttcgat 60
ggaggggagg aggctgcagg aggaggagca ggagcaggag cagcgggagg tgctgctcat 120
ccacagccag gtgcggagga tcaagcggga ggacgaggag acccggaggc accttctcaa 180
gctgcagctg ctggagacga ggccggccgc cgggcaggag gcctcgccgc cagcctccc 240
ctcgctgtcg ccgctgcggc gtgccgggag cgccataccg gtcggcgact gggcctagtc 300
acctcgctg cccggccagg cagcgtatac agtcgtatag atataggaga gcgagcgagc 360
tatatatattg agagccttag tacggctgat cgatgcctgt ccatgctctc tgcgtgcatg 420
gaaccagagc ttatagctga tcgatctagc tgctctacat gctctgtttc agtcgactat 480
tcttcttctt gttgaaatat accgag 506

<210> 5054
<211> 284
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056c06b1

<400> 5054

tgccgtccag gtcgctggtg cgctcttccc gatcaccgc accgtgctca agtcggagtc 60
ggccgtgatc acggacgaga tgaaggagga gagcgtcttc gccaaagctcc gtgttgcccg 120
tgccgatgcc cgcacgtcg gcaagcagaa gaagcgcctt gccgacaagg ccgccgccgt 180
cgaataagcg accgttgccg tgagccgaag cgagtgtcac taggaacttc taacacacca 240
agctcaatgt ggaacaactg ttgggtttaa aaaacaacgg gtct 284

<210> 5055
<211> 334
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056c07b1

<400> 5055

gaaacttttg gcgaccacgg gctatccgcc gcgtgagatg actaggattg acgcagtact 60
gctgatgctg gtggctgacg ctgacgagct cgtgctcgca catgggccgt aactatggac 120
ctagagcacc atggccaagg ctgtggagga cttcatgacg aaagagcaac taatggccct 180
acaccgtttg ctggctcaac aactcaacct ggaaggccgg cagccggga caaatgacga 240
tggtggctct caggtggcc aacctcaacg aggtgcttga tcgacacaca ggcctaagct 300
tggcagtgtc catgtggtga caacactcct actg 334

<210> 5056
<211> 212
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056c08b1

<400> 5056

tcgcgcattc atcagcgcca attctgctga tgtgtaaaga atgatctgtc gttatagtgt 60
gcgttgggag gatattatgt gattgtacaa ttatgatgta agttgtaggc aaagaaacga 120
ccactggatc ttgattcttg ttctgacctg tacttgattt atcgttgtag cggccagtgt 180
atcatggata tagccgccca ttctcacaaa aa 212

<210> 5057
<211> 537
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056c09b1

<400> 5057

ttgcccacgc gtccgcggac gcgtgggtct cgcgccgttt ctccctcaca acacaaaccc 60
cgagcgaagc cgtcgacgtg ccgtcgtggt ctccgtggcc atggtcattc ccgagctacg 120
acaagatgcc tagaggcacc gccgtcctct tctacgtcga cttcaaccat cggagcaagc 180

tgggagggcc tcgcgcgtca ccatcgagct catctgcgcc tctgcatcta gacgctcgcc 240
gtcttggatt cggctcacc ggagcctccc caagcccgtt ttgctcatct acagggtcaa 300
catgctggag tccaggagcc agacgccact gtcgacgacg actcctacta cacctgaggt 360
gcctactact acgtgcagcc cgctgatgac gaccaggagt agtttaggag gatcccaggc 420
aggaggcctg cgccctcttc gatctgtacc ccagttggtg ctagccttct taagacaaac 480
ttgtttaact tatgtctgta ctcagatatt ggtgcttcg atgactcgtc tatgac 537

<210> 5058
<211> 489
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316056c10b1
<400> 5058

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agccctccca agggccagaa gcttcatatc tcttgcaaaa acaacagcaa attcggaaag 120
aaatcgtttg gcaaggtgac gatccagatc gaccgggtcg tcatgctggg gtcagtcgcc 180
ggagagtaca ccctgctgcc ggagagcaag agtgggtccga ataggaacct ggaaatcgag 240
ttccaatggt cgaacaaatg acagcatcta cagaattagg cgcccgtgta agttaaaata 300
tataaagtta agagtggttt tcttgtttca catcctctgc taaatgttac cctgtttgtg 360
catcagtgta aatagccggc agagaaagtc gttttttggt tgttggtgtt gtactttctt 420
ctgtgagata aaaacagatg agatcagtct gcttttgtag tgattgtaat ggaccgaccg 480
attcattat 489

<210> 5059
<211> 423
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316056c11b1
<400> 5059

tcgctttctt aacatgtctc tttggggtag atcaatgatt gtcacatatg agctaataaa 60
aagactttct gtgaaacctg agcaatgaac cttctggctt ctgctccgcc tatctggtca 120

tcatttccgt tttggccatc tagtgaattc cttttggtac agggattggc atgtaacact 180
 ggttggaat tcttgatgca agtcccctta taaagtctga catgtttctg tacggaacta 240
 ccctgtaaat acctccaagt gcaaggggtgt ctcgtttcag atgagagcca gaggattgat 300
 ctgggtactg gagcgccctg tagttgttga gcaaaaattt ccctgtaagt gctgaagggc 360
 gctcgtttca ggatgagagc cataggctgg atctgggtac tgagcacctt gtagttgttc 420
 agc 423

<210> 5060
 <211> 339
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316056d01b1

<400> 5060

tcgcgccacc ggcaaggtga ccaggctcag gaaggagtgc cccaacgccg actgcgcgcgc 60
 cggcaccttc atggccaacc acttcgaccg ccactactgc ggcaagtgcg gcctcacccta 120
 cgtctacaac cagaaggctt agagggtggct cgcgtttgct ctgctctttt tacctaccta 180
 tcgagaatcg aactcattta gatgtgtccc gtttgtcttt taaactgaaa ccttgagtat 240
 catgttttct gaatatattca tcgcatactg ctgtagtgcg atgcgtgctt aaattttggg 300
 gctccgtatg ctaacgaaaa gactgggaaa accctggcg 339

<210> 5061
 <211> 443
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316056d03b1

<400> 5061

tcgcccacgc gtccgcgtgc gtgcgtgctc catggtgagg tcgattccgt ctgtttcgat 60
 ggaggggagg aggctgcagg aggcggagca tgagcaggag cagcgggagg tgctgctcat 120
 tcacaggcag gtgcggagga tcatgcagga ggactaggag accaacaggc accttctgaa 180
 gctgcagctg atggagacga ggacggccgc cgggcacgag gccttgctgc cagcctcccg 240
 ctgcgtgtcg acgctgtagc gtgccggcag cgccataccg gtcggtgact gggcctagat 300

cgctacgctg cccggtcagg cagagtatac agtcgtatag atataggtga gcgagcgagc 360
 tatatatctg agagccttag cacggtcgat cgatgctctg ccatgctctc tgcgtgcatg 420
 gcaccagagc ttatagttga tcg 443

<210> 5062
 <211> 196
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316056d04b1
 <400> 5062

ttgtctcacg cgttcggcga gtggtgcatg taccacttaa gtggggcact agtgactgca 60
 tgggtgcctac atgtgatgtg tgcttggtgg aatatttcta taagcatgta atgtttcgtc 120
 tgtgttaacg tgaacacacg tctccgtgtg atttctattg tcaaaaaaaaa aaaaaa 180
 aaatagcatg aggaac 196

<210> 5063
 <211> 396
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316056d05b1
 <400> 5063

atgctgctcc tgctggtact gccgctgaag tattggcggg tcccacgcgt cttttgggca 60
 ccactgggta tcctgttcgt gtggaccca tggaggagcc agaaccaaac accctgtgag 120
 caacccacg attggataga ctagagcagg ttgtacatgc cgggactgcc aggccacaat 180
 ctcatgatgg aggagctgac tgccttgat aaactgagta aacgtctgtc cgtgggggggt 240
 gcgcaacatg acgcgtcatt agaatagccc cgtagggaat cgaatttgtc gggcttctag 300
 gcgataagcc tttggagggg ttttcttata ggcgacaggg gctaggcact ggccgtgtaa 360
 ccaatggcgc ggtctgaggg aacattggcg cctccc 396

<210> 5064
 <211> 461
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316056d06b1

<400> 5064

ttgttgacgc gtgggctttg gggaggtggc ggaggaggac gagggcgagg tcgtcgacga 60
cgtcgaccgc cccgccgtcg ttctgaagcc gtccgtccac gccttcgtca ccgacctgcg 120
cgtggtcggc acaaaccac gtggaacgct cttcctggac gacagcgaga ggaacattgc 180
cgtggggaaa gcactcggtc ttcgcacagt cctggttggc aagagggcta ggagcaagga 240
ggcggactac gcgctggaga ccgtcggcgg ccttcggtga gccatcccgg agatctgggg 300
cgggtcggag gacgacggcg agctgcaggc cgaccacaac gtggagaaga acaagagcat 360
gagggccgag ctggactgcg tcatccagcc caccncatc caggcttgat cgatcgatcg 420
cgtccagatg atctccaatc cagacgctgc ttgtgcatac t 461

<210> 5065
<211> 448
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056d07b1

<400> 5065

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gtctcctccg gcgaggaatt cgatgtcttc taccttggtc agcaatggcc tgggtccttc 120
tgtgacacga agaaggggtg ctgcttcccg gacaccggct agccggcgac ggacttcggc 180
atccacgggc tgtggcccaa ctacgccaag tgcaagaccc gcggcgagct cgacggcgcc 240
ctggagatgg tgaccaagcg caagaagaag tgctggccgg agaactgcaa cagcgagcgc 300
ctcaagctct gggagatcaa ggacctggtg acggagctgg acgccaactg gccgacgctg 360
gcgtgcaagg gcggcaagag catcgagttc tggacccacg agtgggagaa gcacgacacc 420
tgctccaacc tggaccagca cggatact 448

<210> 5066
<211> 362
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056d08b1

<400> 5066

tcggccaccc ctatggtgca aattatggtc tgggaggtga tcgtggtcta aatcatgcgc 60
gagatcggcg ccgaggaagt cgatgctctt gtaccttgac aagatatggc cggggttgtt 120
gttggtcacc atgaaggaca ggtgggactc gcacacgtac aagcagatga cggacttggg 180
ctgcgacggg ctggggatca actacttcaa gggcaagatc cgcggggaga tcgtcgaggc 240
cctgctggtg gtgaccgtgc acaagatgaa cggctacccg gagaactgag cagtgagggc 300
cacatgctat gcgcgagcat ggtcatgatg acggtgtttg acaccaaagtg tccatcgcta 360
aa 362

<210> 5067

<211> 180

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056d09b1

<400> 5067

tccgctcata cgggggatca taggtaggcc tgcttggttg acagattggt tggcacactg 60
ctcggatcat tacgcggggtt atcataatga ttcagccaca gaacgaaatc atgaaccgaa 120
ttatagccag agacgaagac ctagacggaa tcctagcttg aaacaaaagg acggaccatc 180

<210> 5068

<211> 341

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316056d11b1

<400> 5068

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taattagcaa ctccacgact ggaagtacta gatcatatat atacatgcc aacacgccac 120
ggctcgaatc aattattcag caactgacac gattgagaaa actatggatc ggacggacgg 180
caaggcgacc ggcggatgag gcatcatcac cctagcccc taggacttgc tcttgcggga 240
ggcggaggcg gtaggcntcc ggccccggct cccttgctgg cgacgaggtc gtggtcttgg 300

<210> 5071
<211> 395
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056e07b1

<400> 5071

tgggggatgc tgccccgcct ggaggtactg ttgacgaatt tcttgggtcg cccacgttt 60
tttgatgaat agcggcgaca gtcgtcacgt ggccagtatt catcaatagc cagcaatcat 120
gctgatggat aggagggatg aggtttgctc cccacaagag tcgttatcat cgtactttgg 180
gaagatgcct attttgccga ggatgtcatg aagcacgatg aacttgatgt tcttcatcgt 240
tctcttgggc aacatctccg ccatgatggc ggccggggg ccagaaacga acaaccgggtg 300
catgctgggt cgcaccgtca ggagcatctt gatggacaga ctgatctaga tcgttaattg 360
ccgtttacac acaatgggct gattgagaaa accgt 395

<210> 5072
<211> 235
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056e08b1

<400> 5072

tcgataacaa aaaaaaaaaa aaaaaggaga gcacataata aaagcaataa agacacagaa 60
tgcagagaga caagaacaga tgaggttact agcgaacaag aggcgtcatc atgcgggctc 120
cggggtgact acttttttgc tgaggagccc acgccgtacg ctgacctgat tgccttgcgg 180
cgctttcttg gttaacaagt cggctatgta tgccatgccg tccgggacga tcgaa 235

<210> 5073
<211> 358
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056e09b1

<400> 5073

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cgccgcgggtg ttgcaccgtg cgggcgccgg cgaggaccgg tgcgcgaact ggcgcgtcta 120

cgccgtgtac gccggtgct ggtcatcat ctgcggtgc gcgcgagctg agaagaggaa 180
gaaggtctac ctgcggtgct gccgaggagt ggaagaagag ctgagggatg aaagcttttt 240
ttaggggctt atgtgcaaac attaaatata gtgaaagcca aagggttgg ctataagatg 300
ggaggagggg gtaattagaa gatcatggag tacaagaaga gaaaggaaaa ctattctt 358

<210> 5074
<211> 92
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056e10b1

<400> 5074

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gaaaaaaaaa aaaaaaaaaa aaaaaaaaca aa 92

<210> 5075
<211> 369
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056f04b1

<400> 5075

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acaaggactg gaagggcctc cgcgtcaccg cacaagctga ccgtacagaa ccgtgaggcc 180
aaggtgtccg tcgtcccttc agtcgcggtg ctgcgtcatca ggtgcctca aggagccgc 240
tagggacagg aagaaggatga agaacaatcaa gcacaacggc aacatcagcc tggacgacac 300
tcatcgagat cagcaagatc atgaagtcca ggtccatggg caacgagatg gccgggactg 360
tcaaggaga 369

<210> 5076
<211> 291
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056f05b1

<400> 5076

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acggtgacgg tcgtctcggc tagatgatag cgaccacgac catggttgtg gtgaccttcg 120
gcaccacccg tctgttggg caataccctg tgcgtgacaa gagacaaacg gttgctgttc 180
gtgccattaa gggcctgtag aagaatgacc acaccggcgc caaggatacc aaggctgatc 240
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<210> 5077

<211> 370

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056f06b1

<400> 5077

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gccatgcttc gttagggcgt tctactgggt gctagattag acatacggca tgtgcatgac 180
ggagagtggg ttcaacaaga cggggctgcc gggcgccatc tgggtactaaa ggtcgcccta 240
ctacaagggtg ggcagcgtac tgagcataat ggtgctctcc gccatcatcg ctcttgtcgc 300
caacctctcc ttcaacgtgc cagcagtgtc actgatgggg aacgaggtgg ggaccgctgt 360
ggctctgatc 370

<210> 5078

<211> 294

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056f08b1

<400> 5078

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aagctcatcc ttgttttact gcgccagtct ggagggatga cgaggtgttt gggctcctga 180
tatgtctggg ttgaactgat gctttgggga tgcccaccct cgtaacatga agaacattat 240

ctgcttttct tgaaggttgg atattcgggtt tatgaagaca tatcgtctat tctt 294

<210> 5079
<211> 369
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056f10b1

<400> 5079

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gggagccatc ccggcgctga ccaccaccgg caccgacctg gagctcatca gcaagggcag 120
taactagaga ctcatgtgtg cgcgccatcg ggggtgaatc ttaggagttt tagctgcact 180
tttattatta ttattagga tgaattgagt ttagttcgtg agtcaagtgt gtgtgacctc 240
gtgggcgctt aataaaaagc aagcatgtgt ggtgattttg gttgcgggtc ttgtgtaagg 300
aggctactga ttgttgtagc cttcacccaa actttatcag agtctttaat gaatggacaa 360
gttcatcaa 369

<210> 5080
<211> 167
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056g01b1

<400> 5080

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gtttgaaccg accctatata gatatatctg tgtcaggtaa gaaagatcat ggaaagatag 120
ggatcatcacg gttgtggggg ggatccgatg acgaaagaag agctgat 167

<210> 5081
<211> 504
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316056g02b1

<400> 5081

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 ggttgaacgc gacgggagag tttttccggc gccgtgacga gtggaggagg caccctatgg 120
 tggggaacca gctgcgccac gccactccgg ggctaggcat cgccatcgtc gcctttggga 180
 tctaccttgt cggcgaggcc gcctacaacc gactctaccg ncccgccgga gacaaccacc 240
 actagatctc cccagaggt aaagtagatg gagcaaactt taccgaagca ccaatgactg 300
 atcttttccg gattgatctc ataaggctcg catgaccacc ttgtaattcg cgatcaggag 360
 acgtgctgtt ggttcaacta gttttcctgg aacgcgtgtc ctttaaactt gatactattt 420
 tgtggatata ctcgcatct ggacatggca ttngtttttt ttctttttga ccctaggacg 480
 tggcattgtg gttcttacat tact 504

<210> 5082
 <211> 160
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316056g05b1

<400> 5082

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 acatcactgt gtttctcatt tacgtcagca aatcaaaagt ctgttcttgt tgggcactag 120
 attattaaac tctctgtcat gtgaatgtgg ttgttgctgc 160

<210> 5083
 <211> 487
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316056g07b1

<400> 5083

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 gaacgcggcc ccgcgcgg cggggggcc ccggctcacc cgtgcgcgg ccaagcgcgc 120
 cgccacctgc tccggggcc cctccggcgg cgccaagcgg aagcgggtgg cgctcagcga 180
 gctccccatc gtctccaacg cgggggtcgt cctccgccag cctcgaagc ccgccaagcc 240
 cgcggtcgc gccgagggg aggagcagca cgggggcttg agcaggggcg cgtccacctc 300

gccgaccccc gtcgggaggg aggtcagcgg cggcggcggc ataaccacagc tcagcggggtc 360
ctacgcctgc gacatctaca cctacctgcg cactatggag gtggaggcgc ctgcgccggcc 420
ggcggcagac tacatcgagg cggtcacagc ggacgtgacg gccaacatgc gggctatcct 480
aatcgac 487

<210> 5084
<211> 321
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316056g10b1
<400> 5084

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atggccgccg ccgagtcga ggcggggttc tacgaccagt tcgacgtggt cggctccggc 120
aacaacgtgc gcgtgaacga ctatggcctg gccacgagg tggcgctcac gctcgaccag 180
ggcaacggcg gctccggctt cagctccaag gacaagtacc tctacggaga gttcagcgtc 240
cagatgaagc tcatcgcgcg caactctcgc ggcaccgtca cctacttcta cctgacgtct 300
ggggagggcg acggccatga c 321

<210> 5085
<211> 391
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316056g11b1
<400> 5085

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cacatggcca cgtccatgat gaccgacaga acgcacaact taccgggtcg gcggctctca 120
gggttcctag attccttgcg ctggagtgca tggctaatag ctgaactata gggccacctc 180
taacaaatgc acggacagcg gtaccacgca atacggctgg gaaagccatg gggtgaccaa 240
acttaaatgg tttgccatct atccgaggat ctccatttcg cgagaactca tataggccat 300
acacgatcgt cttaaccaac attggcacgg caaaaccggg gattggaaca ccccttgctg 360
aggacatat accccgtccg tcaggtgggt t 391

<210> 5086
 <211> 197
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316056h01b1

 <400> 5086

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 gtgttgaccg caactgggga ggtcttttta gagcatccaa agtgacggac gcacgcttgg 120
 gacgtcatcc atctgctata ggggtactcta agtcaaata actgcttggc tgtctcaact 180
 atctagactt ggcaaaa 197

<210> 5087
 <211> 462
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316056h04b1

 <400> 5087

 ttgctccaat cccctccaat cccaccttcg gaacagcagc cagcaagcgt agccagccat 60
 gtcggggccgc ggcaaggag gcaagggcct gggaaagggc ggggcgaatc ggcacaggaa 120
 ggtgctgtgc gacaacatcc aggggatcac gaagccggcg atccggcggc tggcg:ggcg 180
 gggcggtgtg aagcgcatct ccgggctcat ctactaggag acccgcgggc tgctcaagat 240
 ctctctcgag aacgtcatcc gcgacgccgt cacctacacg gagcacgcc gccgatgacc 300
 gtcaccgtat ggacgtcgtc tacgcgtca agcgccaggc ccgcaccctc tacggcttcg 360
 gcggctgagc gcggttcgtg cctcgcggtg gatttagatg tggtaggcg ggtcgtcgtt 420
 ctgaggtgtg ctatgcctgt gtgtgcgtgt gcagctgcgt gc 462

<210> 5088
 <211> 485
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316056h05b1

 <400> 5088

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 accatgaggc cacacgtgct gctcgccgcg ctggccgacg tggtcatact aacagcagct 120
 gttgccctcg cccacgggca aggggagacc ccaagcgct cgccgtgctg caacaactgt 180
 ggcacctgca ccaggaacat cccggccagg tgcacgtgca tggaccgta gacaagcggc 240
 tgctaccgag cctgcaagac ctgcgacaag ttcaccgtcg ccggccaaga cagctttcag 300
 tgcaaggacc gtgtagccaa cttctggcag cacagctgca ctaacgccgc gtgactcgac 360
 ctgttgatac cagaataatg ccagttagct tgagctttta ctgtgcttct cgcagtattt 420
 gagagaaccc tctgcatctc gctatggtag ctagatgcag agacgatatg gagttggatg 480
 catgc 485

<210> 5089
 <211> 296
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316056h07b1
 <400> 5089

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 gttgttcctt gtaatgcgtg gcttatttct gtcaaaaaca gtgcaaagta ttcattgtgaa 120
 tgaaggatga tagtctgtac tgcataaaaa caaaagaact gactggccgc ctacactcgc 180
 tggaaaggaa aaaagatgca gcttgataaa ctaattgaga cgaaagaaag aacaac:cttt 240
 tctaaatgga gaaagggggg ggggggtttt aggaaccag gtttactaac ggggggt 296

<210> 5090
 <211> 413
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316056h08b1
 <400> 5090

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 tgtggttaacc agattggttc caagttctgg gagtggtgt gtgatgagca tggcatcgac 120
 cccaccgggc ggtatgtcgg cacctctgac ctgcagctgg agcgtgtcaa cgtctactac 180

aatgaggcct catgtggtcg ctttgtgcc cgtgctgtcc ttatggatct tgagccgggc 240
 accatggaca gtgtccgtac tggaccgtac gggcagatct tccgccctga caactttgtg 300
 tttgggcagt ctggtgctgg taacaactgg gccaaagggc actacaccga ggggtgctgag 360
 ctcattgact acgttcttga cgttgtcagg aaagaggctg agaactgtga ctg 413

<210> 5091
 <211> 389
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316056h09b1
 <400> 5091

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 gctgacccaa acaggggaac ggccgccttg cttgagctag catagagggt gtctgagcta 120
 caaaacatgg gttggagacc ttgtcgaacc atgattttgt gtaattggga tgctgaatag 180
 tacggcttga taggttcac ataatgggtt gaagagaaca gggcaatgct aactctcaga 240
 actgatgctt acctgaatgt agatgttggc gcggtgctt ctggagttga cgcataaggc 300
 actcatcaac ttgatgagtt gctcaagcag gcgagtaaaa aggatcaaaa tccggataat 360
 ggaacagtta gtctgtatga ctctgggat 389

<210> 5092
 <211> 538
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316057a02b1
 <400> 5092

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 tcaaggaaga gccactacaa atacaagccc ccaaagggca gcagcagcag cagcagcagc 180
 cgcactagca gtggcagcaa aaaggacaag aagcattctc accacagcag cagcagcagc 240
 aaaagagata agaaaccttc ccatcgcagt agcaatggtg gcagcagcag aattgacact 300
 agtgatcctc aacatcggaa ggcataatggc agcatcacta gcagcagaaac tgacactagt 360

gttcctgaat atcataagtt atcacctggt cagccaccgg ctagtgccgc agtgggaagaa 420
gccataccta ccgtacctgt actgaaggcc atggaacaga tcaaacgtag ttccagctgc 480
tgcaaggagc cgtcgataag catgaaggcc atggaacaga tcaagcgtag ctccagct 538

<210> 5093
<211> 342
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057a03b1

<400> 5093

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cctccgcggg atgctcgccg agggcgactt cgacggcgac ggcgcgctct ccagatgga 120
gttctgcgtc ctcatggtca ggctcagccc cgacctcatg gaccagcccc gccggtggct 180
cgacgacgcc gtcgcccagg cctcccactt cctcttcacc agctagattc cggccggata 240
ggaaaattaa tcttcttctt ctctggtggt gtttcttctc tcccccgctg ttcatagagt 300
caggattcga gaaaagaaaa ggcactgtcg attggttgaa tg 342

<210> 5094
<211> 236
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057a04b1

<400> 5094

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gggggcgttg ataaatactc tacgtcctct tccaaatgaa tgacatgact ggcggctagt 180
cttcatatta tggcaactta accgaaaatt actgctgacc gggtcagaaa gaagaa 236

<210> 5095
<211> 86
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057a05b1

<400> 5095

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cgctcgctc gcttatgagt cgcttg 86

<210> 5096

<211> 251

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057a06b1

<400> 5096

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gactacctgc cggatgatggc ggagcggctg ggggaggagg gcctgatgga ggagctggcg 180
gcggcgttcc gactgctcat ggacccggcg tcggacctca tcacctgca caggctccgt 240
cgcaacgcgc c 251

<210> 5097

<211> 365

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057a07b1

<400> 5097

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gatgttgccg tggttgagcc cagtactga ctaatgaata tctttcagcg ctctcttggg 180
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tcgcacggcc tctacctgta ggactggata gactgcactc ggtcttcaac ttgcccttcc 300
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tgcaa 365

<210> 5098

<211> 462

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057a08b1

<400> 5098

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gatattgcaa aatttcaact ggaaatagat agttcatctg gcaacttttg tgcaacatct 180
tctctccata gatgtgcacg tgatgacttc catttctcgt tttgggttagg agttcccacg 240
atgggatggt tacaaactta aagtccaagt gactataaaa gaaacaacaa aaacatagta 300
aaatgtataa aattacgcag ctttcccccc accactgggtg ggggggttttg gagctgacct 360
cttaggaaaa caattcttcg attgtttgct agatacgtta tgagacggac ctgtttaagg 420
ggccgttcca tttctgaagc taacaaactg taagtcgttg at 462

<210> 5099

<211> 260

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057a11b1

<400> 5099

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cgacgccggg gacgttgagg gcgacggcgg acccggcagc gtattcacca tgacgctcag 180
ctcggtgcca gaagagctcg cacgctcggg cgtgatgagg agccacctgg aggaactcga 240
caaccccgcc ggggtgctaaa 260

<210> 5100

<211> 272

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057a12b1

<400> 5100

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 ggggccattg atactttgag gggggggggc tgttttaggg ataccatgtt tgccccctt 180
 cgcttgctgg gtgaacatct ttttttgggg tgcccaactt aaaatgacgg gggcggtttt 240
 tgtcatcctt gtggtgggga aaaccgggg gg 272

<210> 5101
 <211> 494
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316057b01b1
 <400> 5101

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 agagagagag agagagagag atggcgggcg cggcgacggc gacgactaca gggcgggcga 120
 cggcgggcggc ggtggggccg ggggaggtga tctccgacca cagcctggag cagtggacca 180
 tgcagatcga ggaggccaac gccgccaaga agctggtggt gactgacttc actgcatcat 240
 ggtgcggaac atgccgcac atggctccaa tttttgctga tctcgccaag aagttccag 300
 ctgctgtttt cctcaagggtc gacgttgatg aactgaagcc cattgctgag caattcagcg 360
 tcgaggccat gccaaccttc ctgttcacga aggaaggaga cgtcaaggac aggggtgtcg 420
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<210> 5102
 <211> 388
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316057b04b1
 <400> 5102

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 ctctgtcaa cgactatctg tacgagacgg tgcatagcct gcacgaaaag gggcaactgc 120
 cgggtgcaccg gaaagatgtc ctcccagagg cactggacag ccaacagcgc gaaggtgctg 180
 gagcaacaac gcgggtcacg ttaagctgta tcgctgcggg acatcgaacg tggtcctgtc 240

ggggatacat tctatctaata atagtgttgt ttaagtgaac tacacaaatt ggttatgtgt 300
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 caggacttct tttttattga tgcagtgt 388

<210> 5103
 <211> 462
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316057b05b1
 <400> 5103

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 ggactacctg ccggtgatgg cggagcggct gggggaggag ggctgatgg aggagctggc 180
 ggcggggtta cgactgctca tggaccggc gtcgggcctc atcaccttac acagcctccg 240
 ccgcaacgag ccgatgctgg gcctgggcgc catgtccgac gacgacctcc gcggaatgct 300
 cgccgagggc gacttagacg gcgacgggtg actgtcccag atggagttct gagtcctcat 360
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 ccaggccttc cactttctct tcaccagcta ggcggagcat ct 462

<210> 5104
 <211> 238
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316057b06b1
 <400> 5104

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 gtacaagtct ggtttctgca tctacatgca ttagctctc gctaagtatg tgcgctgcgt 120
 gctactgtat aacgttgtgg gtgtgcttaa ttatgttagc tggatgatc tggctctgtt 180
 aagtttaaag ttccttaagt catgtatgtc tgtatgatga tcaataatgc agatgagc 238

<210> 5105
 <211> 381
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057b07b1

<400> 5105

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ctactgaatc gcctgttcta tacgaacaat cctcgagatg cttaggcatg acctgctcct  120
gatattgcaa aattgcaact gagaatatat cgatcaactg acagcttggg cgcacatctt  180
tgtttgcata gctgcgcaac tgatgactta catctgtcgt tacgaataga agattccacg  240
atgggatggc tacaaactta aggtccactt gactataaga gacacaacat agacattgta  300
caatgtataa cattgcccag attgcccac accactgggtg gggggacttg gagctgacct  360
cttacgaaaa catttcttcg a                                           381

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<210> 5106

<211> 448

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057b09b1

<400> 5106

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ctgccgtgcc atgattgggtc aggttgctgg tgggtggcagg actgagaagc caatgctcaa  180
ggctggtaac gcctaccaca agtaccgtgt gaagaggaac tcgtgggacta aggtgcgtgg  240
tgtggccatg aaccctgtgg agcatcccca cggaggaggt caccaccagc atattggtca  300
cgctttcact gtacgccgtg atgcaccacc tggccagaag gttggtctca tcgctgctag  360
gaggactggt cgtctcagag gccaggctgc cgtctatgat gccaaaggccg acacggccac  420
ttagagctat cattgctggt tatctatg                                           448

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<210> 5107

<211> 325

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057b10b1

<400> 5107

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gccgccgagg aggagcaggc gaccagacgc catggcccgt accaagcaga ccgcccgcag 120

gtccaccggc ggcatggcgc cccgtacgca gctcgccacc aaggcggaca ggaagttggc 180

gcctaccacc ggcgggcgtga agaagcccca ccgctgcagg cccgggaccg tcgtcctgcg 240

ggagatccgc aagtaccaga agagcacgga gctgctgata cgcacgctgc cctttcagcg 300

cctggtgagg gagatcgccc aagac 325

<210> 5108

<211> 126

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057b12b1

<400> 5108

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cgttga 126

<210> 5109

<211> 328

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057c01b1

<400> 5109

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ctgctgactg acccagataa gttgctgttc gtacaactgg cgggactacg gcccttgggg 120

gccatggttt atttgcgccg gagtacatga tcaaagatga actgatggac cccctaacta 180

agctgattga acagctgaac ccagatgtga gactggcgga gactgactga agaactagca 240

tcttcctgtg gcagaacaat cataggatgc tagatgacgc gatgactaaa ataggcacta 300

accttcggtt tacaacatag tgactgat 328

<210> 5110

<211> 405
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316057c02b1

 <400> 5110

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 agatacacat acaccacctg ccgagtgccg acgtctagct gctagcttac tttcagaatc 120
 cagatacaca cacacctgcc ggcgtccgtt gctgcatatt tcgatggagt gcgagaacgc 180
 acacgttgcc gccaacggcg atggcttggt cgtggcgagc ccggcgcggg ccgaccact 240
 caactggggg aaggcgggcg aggagctctc gggtagccat ttggaggcgg tgaagcggat 300
 ggtggaggag taccgaagc cggctgtgac gatggagggc gccagcctga ccatccgat 360
 ggtcgccgcg gtggctgccg gcagcgacac cagagtggag ctgga 405

<210> 5111
 <211> 163
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316057c05b1

 <400> 5111

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 cagcaatggt gtcggtcca taattcagag gatatcatag agtacctcat attgaaagaa 120
 ccatgtgatg tttgatggct tgctatatat gtgatggatg atg 163

<210> 5112
 <211> 477
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316057c06b1

 <400> 5112

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 gctgctctgc caatcgtgcc ttgtccgat tgcggcagga acgtgggtgac ctacgttgct 180

aggcgtgggc agaacgccgg tcagcgtttc tacaagtgcc ggaatcacia cccttcagcg 240
ggcggatgcg atttctacag gtggcagcaa ggctatgtgg cgcattctcg caatcttgaa 300
ggaggagaag ctgctgtggg tcaaatacggc ccgggtcaga cgcagggtgg gcaagcggtc 360
caagctcaag ttgtgcaggc gctacacggc cagcccgtgc agcaaaatgg gccgccggag 420
gcgtcgcagg ctgcatcggt tgcaagtgtc gtcgcaggat atatgctcgc ggctgct 477

<210> 5113
<211> 381
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316057c07b1
<400> 5113

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ccgatggcca gcaagtgggt caggcccgag gtgtaccgcg tgttggtggc gacgggcagt 120
ggccatcggc atctgcgcct ttagcctctc ttggcaacat caccggcgac ccagaagtca 180
tgatcaacaa gatggggagg gcagcgggag tgcttgagaa ccatgaggag ggcaggcgct 240
acgcctagca cggactaaga gcctatgtgc aggacaagac ctgcgagatc atgccaggaa 300
tcaacatggt ctctaccagg ccagagtga gcaactttagt ggtgctgtga ctgctaatta 360
gtaactggtg tgggcaagtg c 381

<210> 5114
<211> 382
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316057c08b1
<400> 5114

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gaagaagtgt ggagcacgct gctgctacct ggtcacgctc tcagcagtgt gaattcccag 120
aagcatgctt gccgtgcctt gttacgggtg caccggatgc tggcatgtga gcagggatgc 180
ttcagtgatg caaaacaaaa aaggcaagtc ttatcggcaa gggaaggcta cgcacttctt 240
ccaggtctcc ctgtcttcat ctaaactctgt gattggagga gggggctacg ggtagcttac 300

ccaccggttt actgcgtcct tgtgagttgt gatcattatc atgcactcgt cagttgcttg 360
tcatgtatgg tgttcttgaa tt 382

<210> 5115
<211> 440
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057c09b1

<400> 5115

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tttgaagtac ataaatgttg ccatgggtgac gatattgaag aacatgacaa acattttaac 120
ggctgtaggg gagatatatg ttttcaggaa gtgtcagaac aaacagggttt gggctgcctt 180
atgcatgatg attatattag ctggcagcgg tggatgaca gatctttctt tccatttaac 240
cggttacgcg tggcagattt tgaattgctt tctgacagca gactattacg ttacactgag 300
acgcctgatg gacacagtca aacaatcaac tgaattgggt tttgtcaatg aagtttctat 360
gggtgttactt aacaatgggg tctacatccc tttcgaggac attttgatta ttgtcttgaa 420
ccagtgggaa tacgtgtacc 440

<210> 5116
<211> 414
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057c10b1

<400> 5116

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aggagcagtt tcaattgcac ttgcttataa caagtttaca acatctgggc atactgctgt 120
gcgagttaat gctgtcatga tcaccagcac aatcattgtt gttctgttca gcacaatggg 180
tttcggcttg ctgactaagc ctctgattaa tctcctcatc ccaccaagac ctggcaccgc 240
agctgatatc tcaagccagt cattcctaga cccacttacg gcgagcttgt tgggggcgga 300
cttcgatgta agccagctca cctccaaac aaaccttcag tatcttctca ccatgccaac 360
tcgctcggat catcgtgtat ggcgcacgtt cgatgatcag ttcatgcccc catg 414

<210> 5117
 <211> 353
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316057c12b1

<400> 5117

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 aaagagggca cccccgaggc caatggaaaa cagaggagga gagcgggaca aaagaagcac 180
 agagcgcccg cctccagaag aagggggaac aacagaaccg agaagacacg actgacggcg 240
 acgaaagaag aacgggagcg ccgagaggca gacccgaaag aggagcacga agacacgagg 300
 acaaagcaag gcacgggccg gaagcagaca acgacacgag agagaaaacc cag 353

<210> 5118
 <211> 285
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316057d01b1

<400> 5118

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 atattcacgt acacgatctg ccgggagtcg gccttgagcg gctaacggac gatcagtggc 120
 cggatacgca cactggggac gaagaacgga gcacaatact acatgcgagt gggatcgcg 180
 acacgtagtc ggcagctgat accgtctgga cgtggaacag ccgatacgga ccgaccgatt 240
 caactgagcg atcactgaca tggagcttat ctgtatctat ttgga 285

<210> 5119
 <211> 353
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316057d02b1

<400> 5119

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tacacataca ccacctgccg agtgccgacg tctagctgct aactgacttt cagaagccag 120
agacacacac acctggcggc gtccgttgct gcatatttca atggagtgcg agaacgcaca 180
cgttgccgac aacggcgatg gcttgtgctg ggcgcagccg gcgcggaccg acccactcaa 240
ctgggggaag gctgaggagg agctctcggg tagccatttg gaggcggtga agcggatggt 300
ggaggaacac cgtaagccgg tcgagactat ggagggcgcc agcctgacca tcg 353

<210> 5120
<211> 300
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057d03b1

<400> 5120

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ctgctgccag acaggcttga gaagtagcgt tagaacctcc ggccatatgg tggctgcttc 120
gatggcgatc aataggagca aggacgagaa gacgaacgag tacgaccaga ggctctctca 180
gcttggttggg ggaaacacca aggcgcgtat taccgacgac gacgacgaaa gaacaaatga 240
tcctcagggg agccgcaagg gacgaggagg ctgatgcaac gagctcatgg gcaagaacat 300

<210> 5121
<211> 429
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057d05b1

<400> 5121

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cgcgctcctg cagagggcgt gcggtgggcc cgtggtctac tgccgcgaca tcggcgcgct 120
cgccgtccgc gactcctgcc acctggccgg tgggccaagg tacgccgtac cgctcggtcg 180
ccgcgacggg ctaacccccg cgctccctgga caccatcttg ggcgcgctaa cgccgacgac 240
ctccaaggtc cacgtgctcc tcagcttctt ggccaagatc ggactcgacg cctacgacct 300
ggtaggcgctg tccggtgcgc acacgctggg gatcgcgac tgccggctcct tcgaggagcg 360
gctgtctccc aaggaggacc ccaccatgaa caagtgggtg cgacggccac ctcaagctca 420

cctgcccgc

429

<210> 5122
<211> 249
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057d06b1

<400> 5122

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cccgtcctg cagagggcgt gcggtgggcc tgcggtctgc tgggcccaca tcggcgctct 120
ggtggtctgc cactcctgcc acgtgggcca tgggccaaga tccgctggac cgatgggtct 180
ccgcgagggg ctaacacccg catccctgga caccatttgt gggcgcgcta acgccgacga 240
cctccaagg 249

<210> 5123
<211> 267
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057d07b1

<400> 5123

tgttctaaac cggaacaga gagctcgctc gacgtgaatg atgtcgaggc agaggcggac 60
gatgaagaag agagggggcac gctgctgcta cctggtcacg ctctcagcag cgtgaattac 120
cagatgccat gcttgccggg cctttttccg ggtgcaccgc acgctgccat gagagcaggg 180
ttgctctaga gacgcacaaa aaaaaaggca agtatgatac acaagggaag gctactgctt 240
tattccaagt gtaaatggat gcatata 267

<210> 5124
<211> 497
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057e01b1

<400> 5124

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tggggcgcgcg aggtggcggtg gcatttctgc ttgttccggc cggaccgggt gcgcgccgtc 120
 gtcgcgctgg ggatcccgtt cttccccgc tcccctcggt cgatggcgga gatgttcgcg 180
 gcgcgcggcg atgggttcta catcacgcag ttccaggagc ctggaagagc tgaaaaggca 240
 tttgctcggg acgacgttgc gactgtccta aagaagttct actccattga attagatgac 300
 cttgctgctc ctctggagt agagattata gattttttcg atgtgtcatc atccccactt 360
 acttgatga ccgaggaaga actgggccag tatgctgaga agtttcagaa gtctggcttc 420
 accggacccc tcaactacta ccgtaacatg gacacgaact gaggcttact gcaccctggc 480
 acgctgcata gatcaca 497

<210> 5125
 <211> 467
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316057e03b1
 <400> 5125

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 tcgtgattta actagcggat gctctccttt tcggagtagc tacgtagtaa gactagtagt 180
 agcagagtga tcctgattat acttgagcta gctgccgat ggcatttctc atcacgggtgc 240
 gcgcacaaaa gaagaagaag cagctggaac gaatgagcat cacacatctg agcgccatgc 300
 gtcgcggccg atcgaaattt cgcgggaacg tgggcgtggg ggcgagcaga acagacggg 360
 aacagaggag ccaccgacgg gctgggtcac atgaatctcg ggccggccga tgtggtggcc 420
 gccgcggtgg tcgacaccat catcatgcgc gcgaagtcct ggaagcc 467

<210> 5126
 <211> 434
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316057e04b1
 <400> 5126

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acacggtcac ccttgagagc gtggatggcg caatggcgcc agaggtgatg gaggtcttag 120
ccgtgtgccca ccttgacacg ctgcggagga gcccgaagaa cccgatcttt gagctgcaca 180
ccctgaagcc gggggatgtc gacgtgagcc attagcttac taagctcaac atcatctggg 240
tgcggtgcagg tgagcagggg gacacacatg cgggaggcca ttagaagagg atacacgtgc 300
acctgtgtgg gctgattgtg tgagccgtga cacatacatc ggaccatgat atgggtgaat 360
ctatgctaac tgcgtgatga tggtatgaaa taagtgggtg gtgtgagttg tcgtatgaac 420
tacataatat gtga 434

<210> 5127
<211> 160
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316057e05b1
<400> 5127

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tgcagtgcac gcaactctgt gtgctggtag tggactactt cttctgtgca gccgttgatg 120
gcgcatgagt atagttgtaa cttgtgaatg cgcgaaactc 160

<210> 5128
<211> 451
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316057e07b1
<400> 5128

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gtggaagaag aagaagtgtg gagcacgctg ctgctacctg gtcacgctct cagcagtgtg 120
aattcccaga tgcattgctt ccgtgccttc ttccgggtgc accggaggct ggcatgtgag 180
cagggatgct tcagtgatgc agaagaaaaa aggcattgtct tatcggaag ggaagcctac 240
gcctttcttc cagggtctacc tctctccatc taaatctgtg tttggaggag ggggctacgg 300
ttagtttacc caccggttta ctgcgtcctt gagagttgtg atcattatca tgcactcgtc 360
agttgcttga catgtatggt gttcttgaat tttcagctac ataatggtcg gttgtgtgag 420

tgaatgataa ggtgttcttg aatgctcatg t

451

<210> 5129

<211> 395

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057e08b1

<400> 5129

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tggcgaagag ctcgttcaag ctggagcacc cgctcgagag gaggcaggca gaggctaacc 180

gcataaggga gaagtactct gacagaattc ctgtgatcgt tgagaagggt gggaaagagt 240

ctattcctga cattgacaag aaaaagtacc tcgtccctgc tgatcttaca gttggacagt 300

tcgtgtatgt cgtacggaag cggatcaagc tcagtgggtga gaaggcgatc ttcattcttg 360

tgaagaacac tcttgacct acagctgccc tgatg 395

<210> 5130

<211> 418

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057e09b1

<400> 5130

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ggaatgtggc gctgcgcgga tatgaaattc accgtcgacg gcacctgcgg tgggacctgc 180

atgaagtact gacaggctca tgccagcatg atatgtaccg cctaaaatga aataaaagct 240

cacacgagaa gagcagcgtc atggtgctta tgcgtgtgtg agtgggtcaac aaatatgtat 300

accagtatgc cgtgtctttg tagatgtgtc atctatctcg agaaaaagtt ggtgttgctt 360

gctgttcaca tatccggaat atacttcgtg aataagttat gattgtacgt gggcggcc 418

<210> 5131

<211> 287

<212> DNA

<213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316057f02b1
 <400> 5131

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tccggcgcct ccaagaccta cccgcagcag gccggcgcca tccgcaaggg tggacacatc  180
gtcatcaagg cccgtccctg caaggttgtt gaggtctcca cctccaagac tgggaagcat  240
ggtcacgcaa agtgtcactt tgttgccatt gacattttta atgggaa                287

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<210> 5132
 <211> 227
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316057f06b1
 <400> 5132

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ttttgaccac ggctgggacc aacagtcagg actggttttc tgggaacttt gggtttgggt   60
cccccgggat gccagcaa at ggggtccacac ccggacgtgc taacaagagc gcatgcaccc  120
ttacctcttt taccatggcc tcttaatcaa gcaaagagta cgaatttgcc tcattaacgc  180
aaggaatgta gtcgaagcga tgaatggctt tgaatacttg gagatgg                227

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<210> 5133
 <211> 258
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316057f07b1
 <400> 5133

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gcactcagga ggaacctgct gagataccag acagccatca tgaccactga gggggcgctg  120
atggacatcg attttctaag acgtactcgc tgaagatcga tcgcatgacc aggggtggac  180
acttgattat caaacaactt ccctgtaatg ttgtagtggg atcaacgaac aaaaatgtga  240
agcttctgct cgcattgt                258

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<210> 5134
 <211> 504
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316057f10b1

 <400> 5134

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tcggcaacga gggcgagtac gagcggatca ccaaggagga gaagcaccac aagcacaagg   60
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aggcgaagaa ggacccggag cacgcgcaca agcacaagat cgaggaggag gtggccgccg   180
ccgcagccgt cggcgccggc ggcttcgtct tccacgagca ccacgagaag aagcaggacc   240
acaaggaggc caaggaggcc agcggcgaga agaagcacca ccacttcggc tagatcgtcg   300
ttgacgtgcg gtggccggcc tcgccgacgg ccgtgcgtgt gcttacgtta cgtgtgttcc   360
ataaagttag agaggctggg acgcggggcc ggtctcgtgc tcgcccgtgc gtgattttct   420
ctgcgtgcta agcttacgcg tgcctgaata agtggggttg ctgttcatgc agtggctccc   480
acacctcatg cgtcngtgtg tgtc                                           504
  
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<210> 5135
 <211> 497
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316057f11b1

 <400> 5135

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gccaaaggctg ggaacaacaa tcaggacttc ttttctggga acttcgggtt tggttcgccc   60
ggcatgccag caaatgggtc cacaaccgca ggtgctaaca agagcgcata caccctacc   120
tcttttaccg tgccctctca atcaggcaaa gactacgatt tttcctcatt aacgcaagga   180
atgtttctcg agcgatgaat ggcttgaaat acttgagat ggatgaggcc tccattgggc   240
gcagatttag ggagaacgtt gggggggcgt tgtacactgt ttaccgagg cagctttgcc   300
agttgtggat acatagttac atcaccttgt gggtaacaa gtgcggatat ggcagaaaac   360
tgctcatgtt gtttcctaca gctgaatagt ctcatgtta cagtgatgcc aaagaactta   420
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497

<210> 5136
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057f12b1

<400> 5136

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ctgggttcaca gggccaccac aactataggg gccgtggaag gggtagaggc agcgcgtggt 180
ctgaagcgtc aaaaaatat actgaagagt acgattatat ggacatgaat gagaagggtta 240
acaaagatga agtatggggc catcttggtc ggaaatccca gtctagagac acagatgggtg 300
agcaaggaga tgatgtattc gatgaacacc tcgagtacga ggaaacagac aatccagagc 360
tagatgtcga gcctgtctac agcaaggatg 390

<210> 5137
<211> 318
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057g02b1

<400> 5137

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tgtgagactg aaaacagctg ccaggttgt cgtccttcc tccgccattg acggtgtaat 120
cagtgagcaa atgttcatga atggtgcttg tctacacagc gcaatctttc tgtaaagcaa 180
acatctatag ttctgtcca ttgtgtctg caactaaatg gggtagatat tcatttgctc 240
catgtaataa tggctttag actacatata tggctgtgga gcaattgtcc tgatccatgt 300
cacaatattt gccctgat 318

<210> 5138
<211> 338
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057g03b1

<400> 5138

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aacacgtgct tgtccagatc gaacagacct gcaggtgatt ccacgcggta gcgcctgcga 180
ccccaaatca actaacctct gggacccctt tttctgctac cacttgggct cctgcggcgg 240
caccggcctc tttccctaaa tacagtgcac cacgtttccg gaccgaaaga aaaaaccaac 300
gcgcggaccg actggaagga aacacctaac gttcacgt 338

<210> 5139

<211> 465

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057g04b1

<400> 5139

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cgaccccttc tccctgacc tctgggacct cttcgacggc ttacccttcg gctccggcgg 180
cagcagcagc ctcttccctt cgttcccgcg catcagctgc gagaccgcgg ccttcgccgg 240
cgcgcggtatc gactggaagg agacgcccgga ggcgacgtg ttcaaggcgg acgtgccggg 300
gctgaagaag gaggaagtga aggtggaggt ggaggacggc aacgtgctcc agatcagcgg 360
cgagcggaac atggagcagg aggagaagac tgacacctgg caccgtgtgg agcgagcag 420
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<210> 5140

<211> 481

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316057g05b1

<400> 5140

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 gacctgtgcg gccggggcgc cgaccctgct cgcgcgatgg cgcaggtctc ccacgtcctc 180
 aaggcgctcc agctcctcgc cctcgctcc gtcgcctgct tctgctggcc cctcctctc 240
 tgcgccctcc ccctactcgc cttcggccag tacctcaact tcaaggtgta ccagctgctg 300
 ggcgagtcgg gtacctacta tggcgctccg ttcgggaaga agatcccgtg ggtgacggag 360
 ttcccctttg gctacatcaa ggaccgcag tatgtgggga gcatcctgag cctcgtggcg 420
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 a 481

<210> 5141
 <211> 160
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316057g08b1

<400> 5141

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 atcggatgggt taaacaatgt tatggcatgc atatttcttc 160

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 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316057g11b1

<400> 5142

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 ccctcaaggg gccgagcgtg gtgaaggaga tcttcattgg actcaccctt gggctcgttg 180
 ctgggtggtat gtggaagatg catcactgga acgagcagag gaagacgcga tccttctacg 240
 acatgcttga gaaggggcag atcagcgtcg ttgtcgagga gtagttctga agtgctgaac 300

cagaagttct acatctcgaa gtcttttgtc attttggttt tgccagtaat ttctgaaact 360
ctctggagag catgacagag tgattgctgt ggagattgtc atgaaaataa gcacaccacc 420
atttgagaac atcgaaccat ttg 444

<210> 5143
<211> 386
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316057g12b1
<400> 5143

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ccaacctcaa ggggtgcggac gtggatcatg cgaacgataa agtgctcgcc cttctgctgt 180
cggttggtga acagctgaac acgcatgact ggcacacgca ggacgaagga acaactgttc 240
tctcacatgg ctagagactg ggcgaggaca cttgatgaca cgaggactaa gcttgactg 300
ctcgccataa acatccatct ggctgggaaa acccagtcgg gactccaaca gaaacgtctt 360
gcactacatg cagagcatga cagatg 386

<210> 5144
<211> 228
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316057h01b1
<400> 5144

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cgtctgttgg aattactctc aaattgcttg cctgacagat ttacccattc gaacgaaact 120
aatctttgtg ctcttgaaag catgaaggag gatattgtaa ctggaattgc accacacttt 180
attaggccga tctatagggtg gccgatcttt gccttctagg gaggagcc 228

<210> 5145
<211> 126
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057h03b1

<400> 5145

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tcagttacat aaatgtgagg tgcacgcttg ctctgagtaa aagatgaggt ctttctctgc 120
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<210> 5146

<211> 386

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057h05b1

<400> 5146

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tgcgggcatg gccgcggagc gccctggttt cgctgcagcc agacggctgg cactgtccag 120
gcttctacta ctgggcgacg ggctactcgc ggcctgatcg tcggttagcg cccttcggtt 180
cgatctgggg tccggccaca cgaagtgcac ctccgacgag atcaaggggtg gctctatgga 240
ccacgggaag tacagttgag ggcgaacgcg accccccta ccccgtcgca cagctacccg 300
aggcgcaccg tgtattcctc aagggggcgt tctcttacgg gaacagaatg cactactgcg 360
agaacgtgca ttcggcgtag ttttgc 386

<210> 5147

<211> 255

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057h07b1

<400> 5147

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tgattgcgag tactgtcact atgtaatcgc aatacgtttc ggttcgagaa ctgtgttgca 120
aattctccca tctgcggact atagtctgtt tatgaccccc atttcatggg tatatgtttc 180
actgtttctt gcttgaccac gatcgtagcc tgcaaggggg gacgaaagaa atgactcatg 240
ctaaggaaca acatg 255

<210> 5148
 <211> 170
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316057h08b1

 <400> 5148

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 ttagttgcat aaatgttacg tgcacgcttg ctctggataa aagatgagtt ctgtgtctac 120
 agtgcgtgcta tatgtagact atagtcagga tagaagaact aattgatggc 170

<210> 5149
 <211> 288
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316057h10b1

 <400> 5149

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 atgctgcgga ctggcccggg ggagctgtgg ttgcccaact gccggacggc atggccctg 120
 caggccacct gtgtatcatc tgccgagtgc acgaggaaca gactgaactg cccgcccgcc 180
 cccggtcgcc gtcagggtcaa cggacacctc ctgttggccg gacatggacg atgaagaaac 240
 tgggggctgc ggcagcacia gctggagagg agcctgttga cgctaggg 288

<210> 5150
 <211> 466
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316057h12b1

 <400> 5150

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 ccatgtttcc acaattgcag agctcaagcc tgggtgttatg tctgtacacg agggaaatga 120
 tgttacaaag tactttgtga gcagtggctt tgcattcatc catgcaaact ccattactga 180
 tgttgtggct gttgaggctg tcccccttga tcagattgac caaagcttgg tccagaaagg 240

tcttgcgtgaa ttcactgccca agcttggatc agcctcgact gacctagaga aggcggaagc 300
 tcatatcgga gtggatgttc acagtgcgct caatgctgca ttgactgggt gatgatgaca 360
 tcttacatctt ttatgtcctt ttcattccgca tctttagaat gtgagttgaa gtccgcaaac 420
 tcatgaatga ggatggatgg aattatctta aataaattat actcca 466

<210> 5151
 <211> 486
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsro9316061a01b1

<400> 5151

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 ttcttcacat gcttctggga ggcctttgct cgttgacgat gataatctcg ctgagatttg 120
 acttcccaag aatccagttt gggctgatgc gatactgggg gatcctgctc gtgtcctggt 180
 tcctcgtggt tggagtgcgg gcctcgcgaa cccgcacat cgcgcgta tcatgatgat 240
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 cgcgctccacc acagagttag gtattgcacc cctgtgtata ttgcgcgcta gctataccat 360
 ggacgtgcta ttttttttag ctggagtatg tgagacgtac atgtttggcc aagacgacat 420
 ggctagagta ctgctactgt tcagtgttgc taaacgaata cagtgatgtc tatcttttagc 480
 attttt 486

<210> 5152
 <211> 521
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316061a02b1

<400> 5152

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 gtccgaccgc aaggggaaag gtacaaagag ggtgcatttt gtcaggaact tgatcagggg 180
 gggtgctgga tttgctccct atgagaagcg tatcactgag cttcttaagg ttggaaagga 240

caagcgtgca ctcaaggtcg ccaagagaaa gcttgggtact cacaagagag caaagaagaa 300
gagagaggag atgtcaagtg tccttaggaa gatgaggtct gctgggtggcg gtgctggtga 360
caagacgaaa tagaacttgg ctagctgggtg aattttatcc ggcagcaaag tcctgtatta 420
ccagtccgta cctatagagc tatggccatt gtgttgacac tatcttttagc ccgtgggttc 480
tattttgaga agaccaatcc tcctaagatg ttatacatg a 521

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<211> 440
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316061a03b1
<400> 5153

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ccatgggtat ctgcggtgac tccatgcaca agcgccgggc caccgacggg aagcacacgg 120
ctctgaggaa gaagcgaaag tatgagctcg gccgccagcc aaccaacact aagctttcaa 180
gcaacatgac agcgaggagg gtccgtgttc gatgcggtac acgtgaagcg gagggtcttc 240
cggcttgaca ctggtgactt gtatagggtg gtgaggactc gaccagaag acccggccct 300
ggatgtggat acagttcgtc aaacaatgag cttgtgagga ctcaaaccct tgacaagaat 360
gccattgagc aagttgatgc tgaccctta agcagtggga cctgactcat tatggagtgc 420
aaatcggtag gcagaagaaa 440

<210> 5154
<211> 470
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316061a05b1
<400> 5154

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gaacaggcag gttaaggcca agcaggtgac attccacagg aagaagaacc tccagtacta 120
tgaaatctct gccaaagaca actacaacta tgagaagccc ttactttacc ttgctaggaa 180
gctggctggt gatcccaaca tccacttggc cgaagcagtg gcccttaagc ctacgcaagt 240

gaccttcgac ttggccatgc agcagcagca ctaggctgag cttgctggctg cagcggcaca 300
gccactgcct gatgacgatg acgatctgat cgagtagaga gaggaccatg agtctgtctt 360
atcaatcaat actttgagag ccagagacta tgcgagtcgg ttttaggttg aaggcttgat 420
tggagtagtc aaccggatgt tttcctgtct gcttgcttgt ctgtgggctg 470

<210> 5155
<211> 523
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316061a06b1
<400> 5155

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gaacaggcag gttaaggcca agcaggtgac attccacagg aagaagaacc tccagtacta 120
tgaaatctct gccaaagagca actacaactt tgagaagccc ttcctttacc ttgctaggaa 180
gctggctggt gatcccaaca tccacttcgt cgaagcagtg gcccttaagc ctccggaagt 240
gaccttcgac ttggccatgc agcaacagca cgaggctgag cttgctggctg cagcggcaca 300
gccactgcct gatgacgatg acgatctgtt cgagtagaga gaggatcatg agtctgtctt 360
ataatcaata ctttgagagc cagagactat gcgagtcggt tttaggttga aggcttgatt 420
ggagtagtca accggatggt ttcctgtctg cttgcctgtc tgggtggctgc aactgttgtg 480
gacatgatct acatatgtgc tgcattgatt tgcgcacct gat 523

<210> 5156
<211> 274
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316061a08b1
<400> 5156

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tccccccacc actggtgggg ggttttggag ctgaccctt aggaaaacaa ttcttcgatt 120
gtttgctaga tacgttatga gacggacctg ttttaagggc cgttccattt ctgaagctaa 180
caaactttaa gtcgttgatt tgcctgcgat ttgaagacgt cgtagctgca tctgctctgg 240

ttattcccag tgcatttgcg gctggtttta ttgc

274

<210> 5157
<211> 365
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316061a09b1
<400> 5157

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ctgatggcgc agccggcggg gggcaagggc ggcgccggca aggtgatccc ggtgccgatg 180
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ttcaccaagg aggtggagtg caaggtggtg atgaaccctt acaagctcaa caagcccgtc 300
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ttgat 365

<210> 5158
<211> 329
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316061a12b1
<400> 5158

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tatacacgcy atgtccagtc tggcaggtga cattgcacag gaagaagaac ctccagtcct 180
atgaaatctc tgccaagagc aagctacaac tttgagaagc ccttccttta ccttgctagg 240
aagctggctg ggggtcccaa catccacttg gtcgaagctt agggccctta gccctcgaga 300
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<210> 5159
<211> 94
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061b01b1

<400> 5159

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<210> 5160

<211> 181

<212> DNA

<213> Triticum aestivum

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<400> 5160

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atatatgcta ccttgataaa tacaaaaaat aggactccaa aggcaatgta tggaaaaatt 180

g 181

<210> 5161

<211> 283

<212> DNA

<213> Triticum aestivum

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<400> 5161

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cattacttgc aaacaaggcg caagtaagac actgaaatgt agtataattc ttcattctcaa 180

tatgtataac cttaacgggt ctgacgtga caccaagcta ttgttccacg actgaccatt 240

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<210> 5162

<211> 330

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061b05b1

<400> 5162

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gagatgcggc tggagatgga cgacggcgac ggcgaggttc aagtgtttgg ttgggaccag 120

ttgaggggtg agctagggga tgtagtaaga gcttggcata gctgtgaaga tttggaacaa 180

gttcagtaac tttcttattc agaagaagtt attttgcagc ttagctagtt aatggagagt 240

gtaaacaggt actctaaaat gtcaatatat gtgaatctaa cacgagggct aagcttggca 300

ctggggccggc ttttacaacc tttagaatgg 330

<210> 5163

<211> 432

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061b06b1

<400> 5163

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aatagctcca cgatggcctc gtcgaagaag gcgtccatct cgctcgagcg gtcccggtgg 120

gtgagcgagt cctcggcgca ctcgaggatg ctgctcaggc cgtagctgtg ctctcgatgc 180

cggagcgac gatgacggcg aggaggaacc ggagctcggg aggccgaggt gcttgttgcg 240

caggatcacc tcgtcgtcgc tctgggtggag ttcatacagc tcaacatcta cggctccatg 300

accacagaga gtcacatct ctgctcatgg gcagccacgg gacatgcac acgacgtgct 360

tcacaaggac cacgacggag tgagcggagt ctgaatcagc aatgtaagca gcgaagagcc 420

agctccctgt ta 432

<210> 5164

<211> 475

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

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<400> 5164

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gccctgggag agacgacgac gacggttcgg cctaccagcg gcggttcgcc atcgagtccc 240
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gatgcttggg ttggctgaac tcccagccac ttgntgctgc actgaaagaa ccccaactca 360
aaaatcctnt atgaccagta caaccatgaa agatatcttc ctggagatcc cagcagcgtg 420
cctatgccta ctctgtctga gtgggtggaga ttcgtatatg catcactgct gcgtc 475

<210> 5165
<211> 491
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: uC-tsro9316061b08b1
<400> 5165

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aagttcattt tctgttactc catctttctt ttccgttcca tattcttcaa taccatttgg 120
tgccacatcc gttgttaatt caatagatag gactccagtg gcatttttgg caaaattgtt 180
tagatattgg aggggggtcaa ttgaagtgaac tattaaagtt gtgaagacag aatttcatac 240
tggtagactt attttgtcct tttcgcccca attagctcag actactatta caaattctaa 300
tacaaactat gttcatcgtg agatagtcga tctacgtgat ggctctgagt ttgtgattaa 360
agtgccttat tgctacaact ctatgtacat ggatactgac caagctcaaa atgatttatt 420
catgatgatg caggtcaatg tattaaatga atnggtagct ccagacactt gcgcaccaag 480
cgtagaaatt t 491

<210> 5166
<211> 360
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316061b12b1
<400> 5166

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aaacaattgc cgttactacc gccggcagga cggcctgagg agagaaggcg accacagcgg 120
gaagcacggc ccggcggggg agcgagtgc ctggggaggc gaggatgacg agcgaggaaac 180
agctgggctc gcgacgccgg aggggaggac aacacgaagg aggaagcggg gctcgggagg 240
ccaaggagga agtggcgcat gatcacggtg gagctgatag aggaggagga agacacacagg 300
acaagactg gtacaggacc acagagaaga acaacctgac ggcaaggaca gccacgggac 360

<210> 5167
<211> 446
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316061c02b1
<400> 5167

tgttggggat ttgcgatcgg taatggtctc acagatccag caatccaata caaggcctac 60
acagactatg cattggacat gaaccttatt cagaaagctg actatgaaag gatcaacaaa 120
ttcatccac catgtgaatt tgcaatcaaa ctttgtggta cagatgggaa agcatcttgc 180
atggcagcat atatggtctg caattccatc ttcaactcta tcatgaagct tgttgggtacc 240
aagaattatt acgacgttag gaaggagtgc gaagggaaac tctgctacga cttctcaaac 300
ttggagaagt tcttcggtga taaagcagtc agacaggcaa ttggagtagg tgacattgaa 360
ttcgtctcat gcagcacttc ggtttatcaa gcaatgctca cagactggat gaggaacttg 420
gaagtccgca tcccagctct acttga 446

<210> 5168
<211> 396
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316061c03b1
<400> 5168

tttgaggaat taagcccca gagttggagg cgatgtcgtg gtggaggtcc aagccgcact 60
tcagcgccga cagccaggac tcgagctcca acgacgcgta ccgcgaggc aaggacgct 120
cgccgtcgcg tcgcaagaag tccgacgacg acgaggagga gtaccgcca tacgaggct 180
acggcgccaa caccaaccgc ggcggggcca acgaaggcgg tggcgggcgc ggcggctaca 240

acggtgggtta cggcggcggg ggcggcggct acaacaacgg ctacggcggc ggtggctcgt 300
acagcaacgg caacggcggg atcacgccct acaacggcgg cggcgggtggc tacaaagcaa 360
ctctttctac ggaacagcgg tgggtgggtac aacaac 396

<210> 5169
<211> 391
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316061c04b1
<400> 5169

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aaacaaaaaa aaaggagaaa gcctgcagct ttccgactgg gaaaaccctg gaagaacaca 120
agaaaatacc cttgaaaaga aataacacta caaacaataa ataacagggg ggggggcccc 180
tttgggggtcc cagggtttccg ccccggggct ggcccgaccg tggttttttt ttggggcccc 240
caaattccat tacacggggc gggttttttc acctccgggc cggggaaccc ctgggggtgc 300
cccactttaa tcgcctggga gaaaatcccc ttttccccgg ttgggggtatt gcagaggggg 360
ccggccccgt tggcccttcc taagagtggg c 391

<210> 5170
<211> 344
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316061c05b1
<400> 5170

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aaaaaataag gagggaaaca aacaggctga tgcaattcgc attcccgttc cgtctctggg 120
ttacggccac ataaataata acactactac tagtactact tgagaactct ggttgttctt 180
ctttatccta cgctgatgtt gtacagcagc cccatcagag caagccaatc tgtctagaga 240
ctagctcaat cgagcgggctc gatcagtagc tccagagcgg gacctcgccg gcgccctacc 300
caccgctgtc gttgcaatcg tggtcggctc cgtccatgtg cgag 344

<210> 5171
 <211> 455
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316061c06b1

 <400> 5171

 ttctcgcgagc gccgcccttt tttttttttt ttaacaaaa aataccaaga aatttcaaga 60
 aaaaaataag gagggaaaca aacaggctga tgcaattcgc attcccgttc cctctctgct 120
 ttacggccac ataaataata aactactac tagtactact tgagaactct gcttcttctt 180
 ctttatecta cgctgatgtt gtacagcagc cccatcgag caagccaatc gggctagaga 240
 ctagctcaat cgagcggctc gatcagtagc tccagagcgg gacctcgccg gcgccgtacc 300
 accgctgtcg ttgcagtcgt cgtcggctcc gtccatgtgc gagccgctct gccagtcgcc 360
 gccggcgggc ctcaccccgt cgtagtagta ggaatcctgg tccaagtccc caatgcgcc 420
 gtacccttac tgcacgggt agtcgtcgta gtgca 455

<210> 5172
 <211> 197
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316061c09b1

 <400> 5172

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 gaaatgacat tgtcctattg ccgcagtaat tttgatgcca tgcccacagg gtttgtgaac 120
 ctgcctagtt tgattgtcaa gggatgtatg tgttactttc aaaaaaaaaa atacaaaagc 180
 taccanncca acaccaa 197

<210> 5173
 <211> 320
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316061c11b1

 <400> 5173

tcgcccacgc gtcggggctg cctgggttag agaatccggc accatcaaca cgatactcgt 60
cagcgacgag cgtgcgacgc gtgcaagccc atccaatctg gtgccgaggc tggaggcgct 120
gcagttgtag cccgtaaagc accgcatacc ctgtagcagc cttgtctgta agctctcccc 180
cgcctctcct tagtttgtct tctgcctttc agaagactgt gtggtgtatt ataggctcgc 240
cgaataggag cttgttttgt tgttgaatcc tgttgtaaat tggcagtggt cctttcaagt 300
tccaactcct ctcatcaagg 320

<210> 5174
<211> 454
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316061c12b1
<400> 5174

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acctgtgtga atgccgagac tggattgggt gaccaaagga agtttagcct gctgtccaac 120
tggcgccgtg agtacacaat ggagaacatc ttgatacagc ttaagaaaga gatggcgaca 180
tcacacaacc ggaaactagt gcagcctccg gaggggacct tctactgaag gagcacttgc 240
cgtgtcgcac gtgtcattcc caagaaccct cgcggttccc attttagata tcgcataaga 300
tcgcaacatt tgggtgcaaac gattatgtat aactttgacg gtgtccttca catggctctt 360
gtgtgtctag tctcgttata tctgctgggt acgcctgtgt tgtaatgata cgctggagct 420
tagctattgt ttctaaagta ccattacgtt gctt 454

<210> 5175
<211> 319
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316061d01b1
<400> 5175

ctcgtgccc accggcgcta cgaaaggggt aggggaagctt taaacagtca acgcggatgc 60
tccaaaaagc aggcgcgcgt aggtgcggat ccttacaacg gaggtaaata tggccacaaa 120
gagaacttgg ggtgtccctg ggggggtcca cgattaagga cgtcctgctt gccacactac 180

acttgttgtt tgagcacctt aaccccgatt gcaggctgtc ggttacccaa gacgaactgg 240
 gggaaccccg ggggagaacc cacagaatag cttgtggaca caaggcctat tatcgcgact 300
 ggcgataaat ctaaaaggc 319

<210> 5176
 <211> 297
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316061d02b1
 <400> 5176

ctcgggtgta tctgagactt gaggctgtgg cggctattgt tctgcttcg cgtggctcga 60
 gttattccgt gcgagttgca acattcgtgg tcgcggatca agggttatga tgtctcacga 120
 ctacgtatat tattagtttg gtggcctaac aagcagaaaa aaaaagaaag caaactaaca 180
 tggaataaaa gacataataa agctcgagtc aaaacaccta tggaccaatt aaaggcattg 240
 cgcaatgcct gaccgctctg tacaacatga tggccgaaac tagcacacgc cttacca 297

<210> 5177
 <211> 289
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316061d03b1
 <400> 5177

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 aaaaaaaaaa aaacaaaaaa aaaaaaaaaag gggcgggcgt taaaaggaac acaagcttcc 120
 aacccggggc atgcaacaaa ataactttat aatagagaaa ccaaaattgg gtccccctgcc 180
 cagaattacc caacttcctt aacctggaac aaccctggca ttaccactt aaagggcctg 240
 caaaaaaata cccttttggc cagttgtcaa aaaagcaaaa aggggaaaa 289

<210> 5178
 <211> 400
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316061d04b1

<400> 5178

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cgcgagatcc aaatagatac gacgacggga aggaggctcg tgaagaagga gaagattcag 120
gtctcaggtg agatcgatgg ttaagatggc tcgcaacacg attatatctg ggaatttaga 180
attgtagttt accctgctgc tttcttttct tttttgtggg tagatctgat gtctctacat 240
ataatagata ccgagtgtat gctgctgggt ctttccattc ttttgggttc gtgggtgccca 300
tgtaaagtgt ggcggtattcc ttatgtttat gccttctgcg gtaaataaaa agctaattgca 360
gattcgtggt caaattacaa aattncctta taaccaaaaa 400

<210> 5179

<211> 162

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061d06b1

<400> 5179

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agatcagcag ctgctcgagt agctcgctg gaggtgtcca aggtgggaga cccaagccca 120
ggctagctag ccgaccaact gctccaccgg agccgatggc tg 162

<210> 5180

<211> 202

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061d07b1

<400> 5180

cctcgatcga gctgcgttgg ctgactcgcg cgagcctcgg tgaactgggtt ggcaactaata 60
agcatgtcac gctaggtgtg gtgggctcgt gggctctgaa atgtgttgtc aagatcactt 120
gctttcgtgt tggggcggtg tccttgacag tgtattactc ttgctgtctt acatggcatg 180
ttttacatga ttctgttcgt gt 202

<210> 5181

<211> 532

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316061d08b1

 <400> 5181

 ttttcgctcc cccgcgcgcg ccgccgctcc actccccgcg accgtcgtct ccaggtaagg 60
 agggcgagat ggtgaagcac aacaacgtca tccccaacgg ccacttcaag aagcactggc 120
 agaactatgt caagacgtgg ttcaaccagc ccgcccgcga gcagaggcgc cgcacgcgtc 180
 gccagaagaa ggctgtgaag atcttccttc gccccacctc tggacctctt cgccccattg 240
 tgcaatgcc a gacccgcaag tacaacatga aggccagggc tggcagaggc ttacccttg 300
 aggagcttaa gtccgctggc atcccaaaga agctcgcctc taccattggc atttctgtgg 360
 accatcgccg caggaacagg tcgcttgagg gtatgcagtc caatatccag aggcttaaga 420
 cctacaaggc caagcttggt atcttccaag gcgtgctcgc aaggtaagg ctggtgactc 480
 tccctcggag gagcttgccc acgcccacag gtccagggcg actacatgcc ca 532

<210> 5182
 <211> 186
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316061d09b1

 <400> 5182

 ggccgcccct tttttttttt tttttttata catattaata atagcacata tgctacggac 60
 atgggatatg gatggagggt tatactacat ccaccgaact aatcgacgct ttacaacggc 120
 ttgactggga aaacggagtc ttaccgaag ataaaaaat cttgcaggac atgccccttg 180
 tcaaca 186

<210> 5183
 <211> 448
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsro9316061d11b1

 <400> 5183

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 ggacgagaga tcagcagctg ctcgagtagc tcgcgtggag gtgtccaagg tgggagaccc 120
 aagcccaggc tagctagccg accaactgct ccaccggagc cgatggctgg cgccgacgtc 180
 gacgtcggga cggagctcaa gctcgggctg cccgggggcg gcgccgaggc ggccaaggcc 240
 gggaagaggg gctatgagga caccattgac ttgaagetca cgcttcccac cggcggcatg 300
 caggaagact ccgcaggcaa gccggagccg gccgccgaca aggccaagag gcccgcagag 360
 gccgcggctg ccgaccccgga gaagccacct gctcccaggc acangctgtg ggttggccac 420
 tcagtccgtc gtaccgcagg acgccatg 448

<210> 5184
 <211> 494
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316061e02b1
 <400> 5184

tgtctgggcg acgtccaccc aatcggagtg aggggctgct acgatgaggg taagcgtgtt 60
 gctgagacac tgatgttcga ctaccacagg cagcatggca ttgagatccg tattgcagg 120
 attttcaaca cctactgacc taggatgaac attgatgatg gccgtgttgt tagtaacttc 180
 attgctcatg ccattcgagg tgaagcactg actgtccaga agcctgcaac acagactagg 240
 agcttctgct acgtcgtgta tatggacaat ggtcttatga agctgatgaa tggagacaac 300
 accggaccca ttaacattgg gaaccagggt gaattcacca tgctggaact tgccgagaat 360
 gtgaaggagt ttgatcaacc cacaagtgac agtgacgatg actgagaaca ctctgatga 420
 ccctcgacag aggaagcctg acatcaccaa ggccaangag gatctcgact gtgagcccaa 480
 gtcgtcctgc gcga 494

<210> 5185
 <211> 539
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316061e03b1

<400> 5185

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 tcgcaatcgc accggcgggcg gagatgggcg gcgaccatgg cggccacggc ccgagcggcg 120
 gcgacttccg gcagaaggtg tggagcatga cgggcggggc ctattgccgg cccgtccact 180
 ggcgcgcgcaa caccgccatc gccatggctg gcatctttct cgtctgcata cccatcgcca 240
 tgaaatccgc cgagctcgag caacgccgc accaccagc cgggccaatc ccatcccagc 300
 tttggtgcaa gaactttggc aagaaggagt actgcaggat gtgccgacta tcacagagaa 360
 agtcattctt ttacctttgt gccttctttt gtcataaccg gtcctcagcg atcgaagctg 420
 gaagaagtac gcgaccatag cgttatgtaa ctctggtgac ttcttattat cacatacaag 480
 gagtgcctgt ttgtttgcga tnaaataaac tcgcgatgca tgagcgccctc tatggatct 539

<210> 5186

<211> 463

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061e05b1

<400> 5186

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 ctttccactg ttgccaattg ttcggcatcc actagtggag tacacctgtt gcatccgatg 120
 aacgctccag aggaattgtt ctgattttgt ttgccgtccc tgacctgagc tttgcaacga 180
 tgcaggggat actaccgctg cacgcaccgc aaattccaag ggatgcgcgg cgacgaagca 240
 ggtgcagcgc gccgacgagg acccggcgct cttcgacgtg atctaccacg gcgagcacac 300
 ctgcgtccat aagacggtgg cgaccgcggc ggcgccatg gcgagccgg cggaggagaa 360
 cccggatgcg cgtaggcatc tgcagaacct gagcacgagc ctgacggtga acaccgaggg 420
 actcacggcg acggcgggtc atcagggctg cggcaccacc acg 463

<210> 5187

<211> 522

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061e09b1

<400> 5187

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aaggcggggag gaggggcggg atgccgatcc tgtacgcggt ggtggcgcg ggcgcgacgg 120
tgctggcgga gcacagcgcg gggcgacca acgcgggcg cgtcgcgcg caggtgctcg 180
agcgctccc cggcgggggc gccgacagcc acgtctcta caccaggac cgctacgtct 240
tccacgcaa gcgcaccgac ggcatcaccg ccctctgcat ggccgacgac gccgcgggac 300
gacgtatccc atttgctttc cttgaggata tccatggaaa gttgtcaag acatatggcc 360
gtgctgact gacagctctt gcttatgcaa tgaatgacga attctcaagg gttctcagtc 420
agcaaattga ttactattca aatgacccta gtgcagatca aatcaaccgt atgagaggcg 480
aatcagtc ggtgaggagt gctatgatgg atatattgat aa 522

<210> 5188

<211> 292

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061e10b1

<400> 5188

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cgctccgcccc cgcgtccgca aagccaaagg ctacgtacgt ggatgggaag aaggaaacgta 120
ctatggcgaa cctgtggctg tggagcattg ttgcgccaca tggtgtgttc taattaaccg 180
cccttctttt tgtggggatg tataccgtac ctaccgatta tgcattgatg taaattacct 240
ttgtccacgt acaaggggag gaaccatgga ataaagaaag agcaacctga gt 292

<210> 5189

<211> 474

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316061f01b1

<400> 5189

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ctgagacact gatgttcgac taccacaggc agcatggcat tgagatccgt attgccagga 120

ttttcaacac ctacggacct aggatgaaca ttgatgatgg ccgtggtggt agtaacttca 180
 ttgctcaggc cattcgtggt gaagcactga ctgtccagaa gcctggaaca cagactagga 240
 gcttctgcta cgtcgctgat atgggtcaatg gtcttatgaa gctgatgaat ggagacaaca 300
 ccggacccat taacattggg aaccaggtg aattcaccat gctggaactt gccgagaatg 360
 tgaagggagt tgatcaaccc agaagtgaca gtgacgatga ctgagaacac tcctgatgac 420
 cctcgccaga ggaagcctga catcaccaan gccangagg ttctcgactg ggag 474

<210> 5190
 <211> 256
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316061f02b1
 <400> 5190

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 agcaagagag gatggttcag aacatcaacg gaaatgttgg agacaaagga gtgtggggag 120
 gcggggacag cggctcaaag cccctccatt ataatggggt ggggatttgt gtgtagttgc 180
 agctagatga ttgcaaggaa gttcaaataa gagttctagt tctgaaaaaa aagaatgagt 240
 tggttcggac tgataa 256

<210> 5191
 <211> 134
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316061f05b1
 <400> 5191

tgttggccac gcgtccggaa acaaaaaaaaa gagagagaac ttttaaaaaa attaaacaaa 60
 aatacaaaaa aatgaagcca acttgtgagc ttgtgcctgc acaaggggag atcttctatc 120
 cgttgcgcgc tctt 134

<210> 5192
 <211> 539
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316061f07b1

<400> 5192

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tagggtttcc tacactgttg ctctgtctgg tcagaatggt taccaccacc gcacagagat 180
gaacaaaaag atttacaaga tgggcaagtc tggacaggag tctcacgagg cctgcactga 240
gtttgacagg actgagaagg acatcacccc gatgggtggc ttccctcact atgtgtgggtg 300
aagggtgact acctcatgat caagggtgc tgtgtgggcc ccaagagaga gtggtgacct 360
tccgccagtc cctgttaaag cagacgtgc ggttggccct tgaggagatc aagctcaagt 420
tcatcgacac ctcatcaaag tttgggcatg gcccgttcca gaccaccgac gagaagcaga 480
agttctacgg ccagctcaag gcttaggccg cgacagatct tatcccatag tgttaccag 539

<210> 5193

<211> 490

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061f08b1

<400> 5193

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aattgcaaat gagtgccagg cgaacttcat cagtatcaag ggacctgagc tgcttaccat 120
gtgggtttggt gagagtgagg ctaatgtgcg tgagatcttt gacaaggcta gggggtcagc 180
accatgtgtc ctcttctttg atgagcttga ctccattgct acccagagag gaagcagtgt 240
tggggatgct ggaggtgcag ctgatagagt gctgaaccag ctgctgactg agatggatgg 300
catgaacgcc aagaaaactg tcttcatcat tgggtgctacc aacaggccgg acatcataga 360
ccctgccttg cttaggccag ggcgtcttga tcagcttacc tacataccgt ttgctgatgt 420
cgagtcgagg caccagatct tcaaagcctg cctcaagaag tctcctttgg ccaaagatat 480
tgatctgagt 490

<210> 5194

<211> 292

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316061f09b1
 <400> 5194
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 cgtccgcca cgcgtccgca aagccaaagg ctacgtacgt ggatgggaag aaggaacgta 120
 ctatggcgaa cctgtggctg tggagcattg ttgcgccaca tgttgtgttc taattaaccg 180
 cccttctttt tgtggggatg tataccgtac ctaccgatta tgcattgcattg taaattacct 240
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<210> 5195
 <211> 354
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316061f12b1
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 ggaggagaat ttctacgtgt ctagggggct cgacggaggc ctccatacca gcttctgcc 180
 agacgaagtt gcggacgaca cgggccgggg gtgcgaccaa gcgggtgatt ggtagcacgg 240
 ggcccgtgct cgacggtaag gctttcttga tgagggtgat agtggaccac tgcattcgtgc 300
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<210> 5196
 <211> 185
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316061g02b1
 <400> 5196
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 ggggtctcca cactatctca gaccctcccc tccccaccag ccgactgaca gaggagatca 120
 aacaaaggag catgtgcgag ggaaaagaat gctccaagga gcgcaatggg gggaccaagg 180

gggac

185

<210> 5197
<211> 488
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061g05b1

<400> 5197

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tggaacaagag caccatccat gatgtcgtgc ttgttggtgg ttccaccaga atccccagag 180
ttcagcagct gttgcaggac ttcttcaacg ggaaggagct ctgcaagagc atcaaacctg 240
atgaagccgt tgccatcggt gctgccgtcc aggctgcaat cctcattggt gaggggaacg 300
aagaagggtgc aggaccttct cctccttgat gtcacccac tgtctcttgg tcttgagact 360
gctggaggag tcatgactgt gctcatcacc cggaacacca ccatccccac caagaaggag 420
caggtcttct ccacctactc cgacaaccag cctgggtgtgc tcatccaggt atctgagggt 480
gagaggac 488

<210> 5198
<211> 95
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061g06b1

<400> 5198

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taagcatgaa aaaaccaatg caacctacag ggtct 95

<210> 5199
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<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061g07b1

<400> 5199

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tgtccttgtg tgtatgtgtg tgcgcagtgc tccctgtgat tgcttcatct atctgcacta 180
tggatggagt gatgaatatg taagaatgaa agatttacct ccaaagacaa ataggatgag 240
caacaacatg aactgggtag gccagt 266

<210> 5200
<211> 189
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316061g08b1
<400> 5200

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cgcacgggtg cctgtgctag ggatttgcat gctccatctc cgcctatgct ctgccc:aagg 120
tgtcctatgt gagactctgt gtgcgcagtga ctgcctgtga ttgctaaatc tatttacagt 180
atagacggt 189

<210> 5201
<211> 440
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: uC-tsro9316061g10b1
<400> 5201

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cgacgcgctc gagtgcgcgg tgtgcctctc ggaggtggcc gacggcgaga aggtgcggac 180
gctgccc:aa tgcgaccacc gcttccacgt cgactgcctc gacatgtggt tccact:ccca 240
cgacacctgc ccgctctgcc gcgcccccggt cggcgccgac gcggacgagc ccgccgccga 300
ggggctcctc cgcgtgccgc gcgaggacca cgccacgncg gagttcccca tgttcc:ccaa 360
caacgtnctc ttctggggca cccacgacga cgtcaccaac ggcgggctcg gagggatgcc 420

gccggcgccg gccccggcac

440

<210> 5202
<211> 364
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061g12b1

<400> 5202

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ggaaggagaa tttatacgtg tctagggggc tcgacggagg cctacatacc agcttctgcc 180
aagacgagtt gaaggacgtc acggggccggg ggtgtgacta agcggatgaa aggtatgcacg 240
cggccagtgc tagacggtaa ggcttttttg atgaggggtga atttgaacca ctgcatcgtg 300
catggacaac gcgatgggcg ggaagaccac gatgacaccc aagttattcc cgttggaggc 360
ctat 364

<210> 5203
<211> 184
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061h06b1

<400> 5203

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ttcaacaaaa agacaaaaaa caaaaaaaaaa attaccaaac ataaacatct tgaaacacaa 180
aact 184

<210> 5204
<211> 348
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061h07b1

<400> 5204

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 cctccatggt gcctatctga gtcacggtt gatacagtag atattgtttt ggtaccagga 180
 caggtgtggc aaacgaaagc tccaacctaa tctgcgcttg ttacaagatc gctagattat 240
 atatcttgca gcacagtcga ataggctgag cggcaacacg aactgggttag gccctgaaa 300
 ccctttgttt aagtgatata ttgaaagtat gtggacattc tgcatgac 348

<210> 5205
 <211> 344
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316061h08b1

<400> 5205
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 caaggtgcct atctgcgtcc ttggtggatg cagttgatat tcttttggtg ccaggacaac 180
 tgtgtcaagc gaaatctata tccgagtctg agttcattgc aggatcgcta tcttatatat 240
 cttatagcac cgtcggatag gactagcagc accgagactg gttaggccgc tagaaccatc 300
 tgtatagggtg atatattgaa agtatggagg cattctgcat gcac 344

<210> 5206
 <211> 379
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316061h09b1

<400> 5206
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 gcggtggcaa cgcgcagaag tccaagatgg cgcgggcgag gaacctcgtg aagctgaagg 120
 gcggccaggg gagccagctc gaggcctaca agaaggccat gaacattcag tgcaagatat 180
 gcatgctgac ttctatctgc accacctctg aagcatagtg caaggagcac tccaaggcta 240
 agcatcctaa gagcgacctc gtacagtgtc ttccccacct caagccgtga tatctgccag 300

atcggactgt gagagagata aaagagagag agagaagctg ccgtaatcca cctagtatta 360
tcatgttccg caatgactg 379

<210> 5207
<211> 388
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316061h10b1

<400> 5207

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gacgcgctcg agtgcgctgt gggcctctag gaggtggccg acggcgagaa ggtgcggacg 180
cttgccaagt gcgaccaccg cttccacgga agctgcatcg acgtgtggct ccaactgccac 240
gacacctgac cgctctgtcg cgccccctc ggcgccgacc cggacgagcc cgccgccag 300
gggctccgcc gagagccgcg cgaggaccac gccacgcccg agttacccat gtagcccatc 360
aacgtntctgt tctgggtgac ccacgacg 388

<210> 5208
<211> 484
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316061h11b1

<400> 5208

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taaaatatte gagcttactg tggatggatt ttgccacatg aacattccgg tccctgcacc 180
tacgaagatg ggaccgtggg gtgcaaagga tgccccctt cgtgaaatgg aaagaaaatc 240
ccaacgtcta gaggagtgtc acaatatact ttacagcgta ataagtgcga ttcagt.ttta 300
ctacattgnt gaagacgggc gaatctgcaa ctcatggtct tggggacta ctggatgtac 360
taattcacnc tgtactattg aaacattaag ttatgcccaa tgagtttgta gagcagataa 420

ctggcacagt tggtagacca gactatttgt ctcaccttaa gattgtcaca cacattaaaa 480
cgta 484

<210> 5209
<211> 490
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061h12b1

<400> 5209

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gcaagcaggc acaggccagc tccggacggg gctgacccg caccgcttcc cggagatatg 180
gtactcgtgg cgccaccaga tgctggccgt ggccgcccgc ggtaccgtg ccatcgcgcc 240
ggactggcgg aggtatggac tatacgacca gccaccggag ccagaggcgg tggcgtacag 300
cgacctgaca gaggatctcc tagccctact ggatgcgctc tccgtcctca aggcttacct 360
agtggcaaag gattttggag ccatgctagc ttatgattct gctctttgtc accccagccg 420
cacatgcggt gttatgtgcc taggcatecc ttctctccac agtggctcct ccttcactgc 480
catgcccag 490

<210> 5210
<211> 361
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072a02b1

<400> 5210

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tgtacttagt ttttcctctg cttttctcga tcgatgccag tactacacta tgcagtgtgat 180
acacttgcac ggagtgtatg ggatttgtgt aacaaaattt tcttttccta gtaaagatga 240
gaccggtttt tcccaggac cctcgggtga ttgggatgtt ttgccaatt tgcagtgtgag 300
atgaaagggg acatgtactt ctactacctt actgatcaag ctggttatcc accgtggggt 360

<210> 5211
 <211> 506
 <212> DNA
 <213> *Triticum aestivum*

 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316072a04b1

 <400> 5211

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attacaatat tacatggagg tctctggaag gagcagttct gtttcaccat caggctacaa 180
atgcagcatg ctttctgatt gacagatcaa gtagtggaac cctaagtatc gttggtggga 240
actgtcgaga gtcaggagct tctctccgtt aactatcagc tgacggcttg aagatttgaa 300
ggatatcaga ctctggtatt aacttgcttg agttgcaggc acacatcttt cttcattctg 360
ctgcttgtca tcagcgtgt actaccatca cagataccta ccacctgaag agttgcactt 420
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aatctgattc cctggcaggc attgtt 506
  
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<210> 5212
 <211> 543
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsro9316072a05b1

 <400> 5212

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atcccttctt tgcagtgtcc actcgttctg aaagtgagat aaaaatgcag atgtatttgc 180
accaggtggt gtccggacca acccataacc aagaagtgtg gtttaagtct actcccacta 240
tagagtttgg taggacgggt gcttttgatt atactctact tgatgcacct acaccggacg 300
ccaaaattat tggtcgtgcc aaaggaaccc atgtccaggc tgaccaggtc aatgctggag 360
atttctccca tttcagtatg atattccagc agggacgggt tactggttca acatttcaag 420
  
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ttatggggat gactccttca aatggagggtt gggcaattgt tggcgggacc aatgaactag 480
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 tta 543

<210> 5213
 <211> 266
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316072a07b1
 <400> 5213

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 acgtgtactt aagttttcct ctgctttttc tcgatcgatg cccgtactac actatgcact 180
 gtgatacact tgcattggagt gatgaggatt tttcgttcaa attttccctt ttctagiaca 240
 gatgagaccg gtttctctcc atggtc 266

<210> 5214
 <211> 351
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316072a08b1
 <400> 5214

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 atgggtcaaaa cttttggatg cttcaagtgg acaaggggtca tgtgacatca aaatcaatga 120
 tgattttctgc gcagctacta tagtacctct ttcgctacag aacgggtgtcc tcaggacaaa 180
 ctgcatagac tgcttagacc gcacaaatgt ggcacagctt gcatacggat tagctgcttt 240
 agggcgtcaa cttcatgtgt tgaagctcac tgaagaacct agaattgatc tgcattagcc 300
 tttggccgat catctgatgg atttttatga aaggatgggt gattcattaa c 351

<210> 5215
 <211> 341
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316072a09b1

<400> 5215

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tcatcaaaac ctttggtatgc tccaagtgga caagggtcat gtgacatcaa aatcaatgat 120
gattttctgcg cagttacgat ggtacctctt ttgctacaga aggggtgtgct caggacaaac 180
tgcatagact gcttaaaccg cacaaatgtc gcacagtttg catacggatt agctgcttta 240
gggcgtcaac tgcattgtgtt gaagctcact gaagaacctt aaattgggtct ggatgatcct 300
ttggccgatg atctgatgga attctatgaa aggatgggtg a 341

<210> 5216

<211> 407

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072a10b1

<400> 5216

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ctatgggaca gacatatatc atgaccaact ggatagccga tgacaacttt atatgcatgt 180
atatggatgg agcacctgtg tgttaccata atgatgcaga atgcacgaag tgatctgatt 240
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atTTTTgcgg taactatgaa aacactgttt gtacagtggg aggctataag actctgggat 360
agacttgagt gagtaggagg cacacatgtt gaattgtact gatgctg 407

<210> 5217

<211> 367

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072b02b1

<400> 5217

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gcgcccgcgc cgtggacggc gtcggccccg tggcatggga caacaacgtg gccagggtttg 180
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tcggcgagaa catcttctgg ggttccgggc agtcgtggac ggccgccgac gcggtgaagc 300
tgtgggtgga cgagaagcaa actaccatct tgacagcaac acctgcgacg ccggcaaggt 360
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<210> 5218
<211> 247
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316072b04b1
<400> 5218

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tgtgagtga gagccgacag ttaattctcg gtttcaagac caacaccaag acgctgggca 180
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atcgagt 247

<210> 5219
<211> 186
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316072b07b1
<400> 5219

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ttttgt 186

<210> 5220
<211> 248
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072b08b1

<400> 5220

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ccaagtggga cttttatggc cttcacaggc cttcgtgttt ctgggacgga gtccatcacg 180
aaagatgaac cagacagccc ggctttgttt gctgaggact gaactgaaca gtgcggccgc 240
gattgccg 248

<210> 5221

<211> 298

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072b10b1

<400> 5221

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cttgtaaata gcacgataca gggaggaatt catgcatgtg taatctgctt gtttcgtttt 180
actctcggct atgctttaa aatcatgggt tccatgatca ttctctaaaa aaaaaaaaaa 240
tataatactc ataattaatc tatttctttc atcatcttat atcatacaaa ttattagg 298

<210> 5222

<211> 289

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072b12b1

<400> 5222

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cgattacatg gttctagggt gggattgatt acgtgctctg atgcatcacc attaagggtac 180
aaatgatgac tgatttctga ttgacagatc aagtagtggc aacctaagta tcgttggtgg 240
gaactgtcaa ggggcgggag cttttgtggg ttcactatta cctgcccgt 289

<210> 5223
 <211> 404
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316072c08b1

<400> 5223

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gaaataagga ggatgagcta accatagtgg atgttcggaa gctaaaaccc gtccacaaac 180
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aattaaatgc ccatacagca ggggtgctatt gcatagcaat ggatcccctt gatagggtatt 360
ttgctgttgg aagtgcagat tcacttggca gtctttggaa atgt 404
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<210> 5224
 <211> 440
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316072c09b1

<400> 5224

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ttggaaataa ggaggatgag ctaaccatag tggatgttcg gaagctaaaa cccgtccaca 180
aacagaagtt cccttacgag attaatgaga ttgcatggaa taaaactgga gattttattct 240
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<210> 5225
 <211> 397

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316072c10b1

 <400> 5225

 atcacattgg atgttggtac aaataatgag gagcttctga atgatgaatt ttacattggc 60
 ttgaggcaaa gaagggtcac tggccaggag tatgctgatt ttctgcatga atttatggct 120
 gctgtgaagc aaaactatgg ggagaaagtt ctcatcagc tcgaggattt tgcaaaccac 180
 aatgcctttg atctccttgc aagatacggg acaaccacc ttgtattcaa tgatgacatt 240
 cagggaaacag cttcgggtggc ccttgctggg cttgttgcag cactgaaatt agttggtggc 300
 acattagcag agcacaccta cctgttcttg ggagctggag aggctgggac agggattgca 360
 gaacttatag cttttgagat ggcaagacag acaaaaa 397

<210> 5226
 <211> 416
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316072c11b1

 <400> 5226

 tcgtttcaac gtccatcctg gcgaggatcc cctctcctcc caccagcatg cggcccgtcg 60
 ccacgggctt ccccgatgat cctcgcggc agtcctctc tcttctcgcc ttactgcga 120
 gcagtgcagt gcagtcctcg gcgtcggaag aacggcggcc tactccggcg gcatgggatg 180
 caatacttgg gcacgcgatg tgcgggtccg agttgcgggt cgtcggacgt ttgtgtgtgg 240
 ctgcactaa ccagcaaggt gatgaagact accctgggtc aacgctattc tgctctctct 300
 gttgcgtgca gtttgctgcc tgctgcaccg tcggagattg cctcgcagtc catatttcaa 360
 gcctgtgcag cttacagact acctatgtgc ggtggtacaa aagccagcga gaaaag 416

<210> 5227
 <211> 349
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316072d02b1

<400> 5227

cttcaagacc cttcccgttt ccccgaggcg gcggcgcgag cgagcgagcg agcaaccggc 60

ggcgatgggt aaggcggcta agagctcgcg gaaagggag aaggcgtggc ggtccaacat 120

cagcaccgac gacatcgacg agttctacga gaagcagacg cgcgacgccc acgccggcgc 180

cgccgccatt cctccctcc cgtccggctc cctcttcttc gtcgacaagc ccgccttcgc 240

gtccaccttc ttcgncgnca acgcatncga cccggccccc aaagatgttc ctgtcaaaag 300

gaagattgag aaaaacaggg agaaggttct tcacatgag agtgtgttg 349

<210> 5228

<211> 342

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072d05b1

<400> 5228

ctttagtaac ctgcgccgagc taagggtccgc ggcggcagcg gcggccatgg atgattacta 60

cgagttcgac cacttcgatg acggaagaca gtacgggtggc ctagagcatg ccatgaagca 120

caagaagagg aggtccgtcc tacgcaagtt cggagacttg tttaggagga gaagcctgct 180

gcacaagtca gacgactttg ctccggttct agctagtagg tagtactccc tctctgtacc 240

ataatatttg tggggagtac taaatatttg tgtgattctt gcattgtgtg tttgctggat 300

aagaatacta tgaaatacac gcagaaataa attgagccct gc 342

<210> 5229

<211> 245

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072d06b1

<400> 5229

ctcacgcgtc cgcccacgct tccgtacatc tcacttatcg ttctaaaaaa gatcctagcc 60

gatggggacg acggacacca tcacctcgct caagaaggcc accttctgag gcatcgccac 120

gtgtactaag atgggcctct gcttttatag atcgaagcct gaactacact atgcatgaga 180

tacacttgca tggagtgatg aggattaaga gtaacaaaat tggccttttc tagacaagat 240

gagac

245

<210> 5230
<211> 237
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072d08b1

<400> 5230

ttatttataaa aaaaaaaaaa caaaaaaaaa ccatgatata ttaaaaaaca aataaagctg 60
aacaatgaaa aagaaaagaa aaaagaacat aaaaatgaag gggggggccgt tttaaaggac 120
ccaagttcac ctacccttgc ttgcaacaca aaagctttac tatagtgcc cctaaatcta 180
attaactgga ccccttttta caactttggg actggaaaaa cctgggaag acccaat 237

<210> 5231
<211> 93
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072d09b1

<400> 5231

ttgtttataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaca aaa 93

<210> 5232
<211> 126
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072d10b1

<400> 5232

cccctgcggg ttccgcgcct gtgttcgcgg cccgaccac gcgttttggt ccaggcatgc 60
ggatcgcggg tggacgatgg tttaggtcag gatcgtgacc catggtgcat caccctgatg 120
agttca 126

<210> 5233
<211> 392
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072d11b1

<400> 5233

ttgcctcacg cgtccgcccc cgcgtccggt caaaattaga ctcaaaggac atcaaaagag 60

gataaccgga ttggccttct ccaacagctt gcatatactt gtttcttctg gcgctgatgc 120

acagttatgt gtgtgggcca ccgattcttg ggaaaagaag aaatcggtcg ctatacaaat 180

gccagctggg aagactccat caggagacac aagggttcag tttaattctg accaaaatcg 240

cttgtttagta gtccatgaga ctcatagatgc tatttatgat gcgttcaaga tggagagaaat 300

ctaccagtgg ataccctagg gcactttgtc agctgccata tcacacgcat cgtacttcgt 360

gcaatagcca actagttttt gcttgctttt ac 392

<210> 5234

<211> 341

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072d12b1

<400> 5234

gttgatcgct cttgggaaat tgcccgaacg gtctgtgtca atgaatggat ggggccttgc 60

tttccgagcc tgtggtgacc ggctgattgt cattggaggc ccaaggactt ctattggtgg 120

catcattgag cttaattcat ggggtccccga tgggcaaccg cctgtgtgga atttggttgc 180

cacacggcaa tccgggaact tcgtgtataa ctgcgccgtg atgggttgct gagtccactg 240

aataaagatt ggatgcagtg gatatttatg aaggatgata gtatgcacaa aggcagcccg 300

ttcaattgct tcagccctga ttcttcgaag cgatttatgc c 341

<210> 5235

<211> 145

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072e01b1

<400> 5235

agacggtttt ttgtcatgga ccaccagcg cgtgagcatg atatgattta ttctagctgc 60

ggtgacgaaa atgcatgaat ccgaggctgg tggaggaaac tctgctttga ggagttcacg 120
gacatggatg aaggcttttt tgatg 145

<210> 5236
<211> 228
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072e02b1

<400> 5236

tcgttggatg aaaattaata aaacctcaac accagaaaac gcaacagaca cgggaatgta 60
cagtgcctag cctacaccaa gcccggtaca gagcccagct gtaagcctgc gacgacctca 120
cgctaagcaa aagtcacgat ggccgggggg atgcaggggc cgccgtcgag ggcaagcacg 180
acccgttgcg caaccggttt gggatggggc ggaagcttca acttctta 228

<210> 5237
<211> 318
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072e05b1

<400> 5237

gttgacttg actggggaga agacacggtc tcctggggaa gaggtggaca aggtgtttgt 60
cgccatgaac cagggcaagc acatcgacgc gctgctggag tgcctaaaag agtggacagg 120
tgagcccttg cctctctgct gaacagagga tcaagaaact gaagagaaga ctgtgtgcag 180
aaggcttttg atctttttaa tgataaatga taatatTTTT ccaattgtat tttcttaa 240
attgatgttt tgtgggatgg aacatccttt cggagctgcc atgttgtttc caaaaattgc 300
aactgcataa cttgtagt 318

<210> 5238
<211> 393
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072e06b1

<400> 5238

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 ttgggggtcgt tggtcacccat cacctcgctc aagaaggcca ccttctgagg catcgccacg 120
 tgtacttagt ttttcctctg cttttctcga tcgatgccag tactacacta tgcattgtgat 180
 acacttgcac ggagtgatga ggatttgtgt aacaaaattt tcttttccta gtaaagatga 240
 gaccggtttt tcccaggac cctcgggtga ttgggatgtt ttgccaatt agtcagttag 300
 atgaaagggg acatgttctc ctactacctt actgatcaag ctggttatcc accgtgggtt 360
 ggtggcactt tctacaagga ccgatcaaga tct 393

<210> 5239
 <211> 133
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316072e08b1
 <400> 5239

tgcgttgatg catgcaacgt tctaccggag ctgaggcca ttgcaaaga ttgcactctc 60
 taatacttgt caatgtaagc gaaagggcac aaattttcat gtcaaaaaaa aaaaaaaaaa 120
 aaagatttaa tag 133

<210> 5240
 <211> 140
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316072e10b1
 <400> 5240

agggcccggt cctgaacgcc tgggtcggcc caccataca cttacttacc accggacacc 60
 cggccgactg agctgcagcc atagatgaca gtacgagcac tccgtttgat agcacgctgg 120
 ggatgaccca tgagagagat 140

<210> 5241
 <211> 223
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316072f01b1

<400> 5241

gttattgtta cgcagcagcc aaaaagctag ctaaacaatag cccttcggca tgggttccaa 60
caagaagcgc agcaggagtgc ctgcggctcc ctggtgtgta gtcctaggca tactcctgct 120
tgtcgtcggg gcggtggcca aggaccttgg caacatcttc caggactgcg aatttgattg 180
ccaagatttt gatccatcct ccgactccta cttcatgtgc atg 223

<210> 5242

<211> 200

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072f02b1

<400> 5242

gttgccgcaa tcatacgcct ccttgccgtc gccaccgccg cgcagggccc catgccggcg 60
cccaggatgg cccactacc ggcgcctccg gcgaggtccc cggccactgc ccctgcgcct 120
gtcgccacct cgcaccacgc cgcgtcgccg tccccgatgg cctctcccc ggccccgccc 180
accgacgcgc cgactgacgc 200

<210> 5243

<211> 253

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072f03b1

<400> 5243

gttgactatg tcggcagga gcgagcgctc gaacgccgctc tacgcgaccc cggcggccgt 60
cctggcggac ttctcgcgcg gatccggccc gtccgtctcc ggcggcgccg cgggtaccgg 120
caccggcagc gggaggagcc aggcggaggg cggggcgagg aagaagcccc ctctccgcct 180
cgcgggcgac gacaccaagc ccgtgctccg cgaccgatc tcgcggtccg accccatgga 240
gactgagcag gcc 253

<210> 5244

<211> 300

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072f06b1

<400> 5244

cttcagttcc ccgatgagag tcgagagagt tacaccgctc tcggaccgat cccttatctt 60
ctccgacggc ctgcccgggc ggagcggaca cgggagaggt gcatggcgta gccctatgta 120
tatagaatct aggcataagg tgaggacgag tagtgcccat gtggcgatg gctggatgcc 180
gatgaggaga gcgccggcgc catgtactag cagcggttgg tgagctacgg tggctgcgac 240
tcaggcaagg ctggctagtg gccaagacct gccgaggggc gtgcctgtgg ctcatcacc 300

<210> 5245

<211> 234

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072f08b1

<400> 5245

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atgaaggcat gtggtggatc ttccagggat gattactagg gtggaggatc tgggaggctc 120
ccgcattaac ttcaaaagac gagggcggtg aggtatttgc tgtgcacact cattttctgc 180
aattgttcat ggactcagag cattttcaaa tattatcctg aaggatttct ttgg 234

<210> 5246

<211> 359

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072f09b1

<400> 5246

ttgtttgact gaggtgaaga aggggaagaa agctgtggac aagattggtg gcggtggaac 60
tatgaaggca agtggaggat ctccaggga tgattacgag ggtggaggat ctgggaggtc 120
tcgcattaac ttcgaaagag gagggcggtg aggtatttgc tgtgcacatt tatcttctgc 180
aattttcatg tcctcagtgc attttcaa atcatcctga aggatttctt tggagaatat 240
gatccttctt acacaaggaa gcaaatatca tcctgaagta ttactttgga gaataagaac 300
ttttttacaa aaggaagaac ctgatgggtt agttgctggg ataaggctgc ttggtctat 359

<210> 5247
 <211> 218
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316072f10b1

<400> 5247

tgatttttagt ctctctgtga ctcgctatta gcaactgttg tggtaagtg caaacctatt 60
 tcaagcattc agtactgttg ttgcccgcac cactcagagg atgtcataaa gtacctctta 120
 ttgaaagaac catgtgatgt ttgatggcct gctaaaaaaaa ctttttgtat catgagaacc 180
 tgagttttgt ataactagga tctttgtctt ctgttatt 218

<210> 5248
 <211> 353
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316072f12b1

<400> 5248

ttctgtttca acgaataagg ttcacttcat cctgaagcac aagaacccca agactggcaa 60
 atatgttgaa catcacctca agtccccacc ctctgtccca tatgacaagc tctctcatgt 120
 ctacacggct atcttgaagc cggataacga ggtaagaatt ttgggtgatg gggaggagaa 180
 gagcaaagca aacttccttt ccgctgatga ttttgagcca gcacttattc catcaaagac 240
 tattcctgac cctgacgaca agaagccaga ggactgggac gagagagcta aaatccctga 300
 cccacctgca gtgaagcctg atgactggga tgaggatgcc ccaacagaaa ttt 353

<210> 5249
 <211> 277
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316072g01b1

<400> 5249

ctgtatcata ctgttggatg ataacatggg gccgataatc gccaatctcg gtctctccag 60
 actctttggg caagaacaaa cacggatgaa cacacagaat gttgttgggt catatggata 120

catagctccg gaatatctat acagaggtga aatcttcacg aagtcagaca tatacagttt 180
aggcctacta atcatggaga ctaccacggg agagaagaat tgtccaggca aagaac:cggt 240
ttgaggtgaa ttcaataaaa atgttcctga aaactgg 277

<210> 5250
<211> 351
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072g02b1

<400> 5250

cctacttgtc cggggggacg accgatccat gggggccggt gattaaatga ggccagcaga 60
tcgcggtgcy ccccccgctt cegtcttcgt cgcgcgcgcc gtctccgttg cggctcttcgt 120
ctccttcttc gtcgcgcgcg ccgacgtcgt cgtcttcccc gaggttgcat tcagcttcca 180
attattgccg tgatccccag gaagagagag tacttggggc actctcctat gcttctccga 240
gactcgctca tttttttcct tgcaagggaa ccagaccgtc gcatggcggg aaacttgggg 300
aatttgccctc atgcaacttg aataatgaag tcctttgggt ttaagggtc c 351

<210> 5251
<211> 320
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072g06b1

<400> 5251

aatacttgta cgaacagggtg gttctacacc aagtttcggt ttaggcatg catgccgtcc 60
gtgctgggcy ttcctgtggc gctactacct gaacacgatt acattgttag ctgcttgctc 120
ttggaatccg cccctgggtt ggtaattgcc catgaagact ctgtgtgtag cgtggatctt 180
atgagatatg atgggtgtctc atgtgatgaa ccatgcgaag aataaatgtt agtgggaata 240
atgggtacag ttattacttg gggagatatg ctgactgatg tagacaaata ttattgcctt 300
gaaatgattc tgggtataatc 320

<210> 5252
<211> 212
<212> DNA

<213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316072g08b1
 <400> 5252

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tttctttgat cggcatgctc tccaaggcct gacgctacgc ttgcacacac ttgcatatgt   60
atgacgcagt gcgtgctaataaatcggttct ggttttcggt tgtttcagct acctgtagta  120
gccacgcaat ggcgtttgta agtaaacctc agtatgaagg ttgccatgga ataaagcatg  180
tatacatgct gcggaaggta agcttttgca ac                                     212

```

<210> 5253
 <211> 244
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316072g09b1

<400> 5253

```

tttgttgatc ggcattgctct ccaaggcctg acgctacgct tgcacacact tgcattatgta   60
tgacgcagtg cgtgctaataaatcggttctg gtttttcggtt gtttcagcta cctgtagtag  120
ccacgcaatg gcgtttgtaa gtaaacctca gtatgaagggt tgccatggaa taaagcatgt  180
atacatgctg cggaaggtaa gcttttgcaa cctataaaaa aaaaaataat taataattct  240
ccta                                             244

```

<210> 5254
 <211> 178
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316072g10b1

<400> 5254

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cggcacccggc ccggccttac ttcttgacc caccacccg tttcttcgc caggccacac   60
tccgggaccc ggggatccac tccgggtatc cattagctga ccacgactt tcagttgcac  120
cgaaccatgc tatgacgccg acgaagagag catgaccac tctaaccagg gaggcgag   178

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<210> 5255
 <211> 260
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072g11b1

<400> 5255

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tggtcacgcy tccggctcga gaacacccac cacaatggct acgcccagg cttactccct   60
cggcgaaacc ctacgcaccg gagcgctcgg tggcggcaga catggccgac gacgactaca  120
atgaagtcga catgggggtac taggatgagc ctacagaggc tgatattgag gaaggggctg  180
aagaagaccc tgagaacaac gaggatgcc ctgatgacgt gggaggggggt gaaggtcaag  240
aaaaggaaca gcgaaagact                                     260
```

<210> 5256

<211> 185

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072g12b1

<400> 5256

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tgctttacgc gtccgaccac gcgtacgtcc actgcgtatt atttttcaag ctgcacgttt   60
taccttctgg catgactacg taccctatgt gggcttttag aaatgctgta tcttccatatt  120
acaaatggag aaaaacaaga aattctgcgt ctattataga aactttctgt agtatgagaa  180
ctggg                                             185
```

<210> 5257

<211> 228

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072h01b1

<400> 5257

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catagattgc ccagagcaga gcgagagcgg ccatggtggt gtcgagcttc aaggtgacgc   60
ggatctcga gggcgcggtg aagccggtgt tggagacccc cgaccatacg ctgccgttgg  120
cgtgggtgga ccggtacccg acccaccgtg gcctggtgga gtcgatgcac attttc:cggt  180
ccggcgccga ctcggteccct gtcgtgatcc gtcaggcgct gggcaagg                228
```

<210> 5258

<211> 259
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316072h02b1

 <400> 5258

 aatagatctg ccctctctct ctctctctgc cgcggcgata cgatccgaga tggcgatgag 60
 ggcgtggagg aggagcgcg cggcgagggc cccggcgcac ctgtgcctgt ggctggcgct 120
 cgtggccgac accctggtgc tcgcccaggg taagaagtcg aacctgtcgg aggtgacgca 180
 caaggtctac ttggacattg agatcgacgg caagcccgga ggaagggttg tcatgggact 240
 ttctcgcaag gctgttcct 259

<210> 5259
 <211> 269
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316072h04b1

 <400> 5259

 gtcactacaa gcacagaggg agaagaagaa gggatggcgc ctatgaaggt gtacggctgg 60
 gcggtgtcgc catggatggc gcggttcctc gtctgcctgg aggaggccgg cgccgagtac 120
 gagctcgtgc ccatgagccg caacggcggc gaccaccgcc gcccgagca cctcgccaga 180
 aacccttcg gcgagatccc ggtgctggag gacggcgatc tgacgctcta ccaatcccgt 240
 gccatcgcaa ggcatattct gcgcaaatg 269

<210> 5260
 <211> 307
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316072h06b1

 <400> 5260

 cctactcgtc cgcgcacctt ggcagactac aacatttatt aaggagtcaa cccttcactt 60
 ggtgctccgt ctccgaggtg gccagtaagc tcgtgacat ggagctgctt ctgttatctg 120
 ggttcacatg tctcggtgtc ttcggttcct ccaatggagt ctggtctgtg tctgtcgttg 180

cctgaactgt ctttgtttct atatatatat accatactgt gatgcagtgt tattgtttgt 240
aagtgcaaac ttctgctggt gtgcagcaac ttttgatgaa ctttaaagaa taaagt:gagc 300
cctgaat 307

<210> 5261
<211> 250
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316072h07b1
<400> 5261

tgcacggacc gggcactgac tttctggatc gaccacgcg tatagttatg acctat:atat 60
ataatataga acgtgtgtga ttctatccaa gatggcgatg aagggccttg aggaagaaca 120
cagataaaaa gacccaaaga acacacttag gggg:cggtg ttttaaagaa tcaaaattct 180
gggtgctcgtc cagggaaaga aatagttctt ttttagggta acctaaattg attaaattgg 240
ccgtgtttat 250

<210> 5262
<211> 203
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316072h08b1
<400> 5262

atagttatgg ctgccatgac tatcaacgac catgttttgc tacacatcct gattacgatg 60
gctgttccgg acgatcttat agacgctggc ccatatacac cggggcctga cgtggg:cgat 120
gccctaacc acgcctatac tcccaccgag aaagacgtcg aacctgtgag tgtgaaacac 180
caagcatata ctgctgcata cca 203

<210> 5263
<211> 236
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316072h09b1
<400> 5263

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tgccataacc actgcctata ctcccatcta tgaaaccatc gaatatatga gtgtgaaaac 180
cgagcatagc gcgctggata ccatgaaccg gatcaaaagc gcactggaag gatggc 236

<210> 5264
<211> 203
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072h10b1

<400> 5264

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tcgctcgctc tcccatgctc tgccattgt gtccttgtgt gtatgtgctg gtgcatgtgc 120
ccctgtaatt gctttatcta tccccactat ggatggagtg atgaatatgt aagaatgaaa 180
gatttaccta attaactact cct 203

<210> 5265
<211> 316
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072h11b1

<400> 5265

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ctcggtcgga gccagcgagc cgtcggacgg cgactaagga gccggcgctg gtgtccatgt 120
ccgcctcgcc ctttggcgcc ggcgtctctg ccacctctac ctcccgtac tcgtcgctat 180
ccgcgcgacg gcgggggtcc atgcgccggc cggagctcca atttttgcgg cggatccga 240
gggaggcaga agaggaaaag gaggggaagg gctcgagggt tggcgggcgt ctctttcgtc 300
cgttgggttaa ttggtt 316

<210> 5266
<211> 340
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073a03b1

<400> 5266

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cctgccgtca agttggacag cagaatcata gaactctaca aagtgtatgg gttgactgaa 180
aggtgagatg aggggttgtc aacaacatct atgaaatacc tggtaatta atcctacatt 240
tcagtatcaa ccaacatttg ttcttctctg agctctcaac cctagtctca tcgatgatgc 300
agcctgcgca tcacttggtc tcagttgctt ggtaagtact 340

<210> 5267

<211> 178

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073a04b1

<400> 5267

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ccttgtttgt tatttccatc aatatactgt cttatcgtga aaaaaccaa aaaagccagg 120
tcgtgtgagg ccccttctca aaataaagcc cccatctcta gctttaaata caccgcag 178

<210> 5268

<211> 224

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073a05b1

<400> 5268

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tctgttagt gatgctgtga gcgtggtgtg tgtgacgacc cagtacaaa taaagcctac 120
agctcgctact atatgtaccg agcaagattg cgttctactt aacagtcacg tgctctgtgg 180
tgtaactggc gtgtggacaa ttctgaacga gagtttttac gcat 224

<210> 5269

<211> 371

<212> DNA

<213> Triticum aestivum
 <223> Clone ID: uC-tsro9316073a09b1
 <400> 5269

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ccggtcccca tcatcgccga ggtcgacctc taccgcttcg acccggtggg gctccccgac  180
cgcgcccttt tcggcaccog cgagtggtag ttttttacct cgtgcgaccg caagtacccc  240
aacgggtcgc gcccacaacc cgccgccggc aacgggtact ggaaggccac cgtgcccgac  300
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<210> 5270
 <211> 432
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316073a10b1
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cttactcaaa gcctgaagat ttcaatcggc ctggccatat tttccctctg aagtacagag  180
atgggggtgt tctcaaacga gctggacaca ctgaagcatc tgttgatctt gctgtgctgg  240
ctgggttacc tcctgttgga gtactctgtg agattgtgga tgaggatggt tccatggctc  300
gcttacccaa gctgcgcgtg tttgctgaaa agaataattt gaagatcgta tcgattgctg  360
acttgattag atattggaga aaaagagacc gactaattga acgtgcatct gttgcacgct  420
tacctttgag at                                     432
  
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<210> 5271
 <211> 443
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316073b05b1

<400> 5271

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gggttacctg tttggagatg gtgagcctgc aaagcccgt gcagcaccag ctgcgaagcc 180
cgcacctgct gagaaaccag caccggcagc tgctgatgta gccaagcaga ttccagctgg 240
cattccaggt agccgggcca acaactacta ccgtgcagat ggccagaaca cgggcaactt 300
ccttacggac cgttcttcaa ccaaggttca tgctgctcct ggcggtggct ccttctctgg 360
ctacttggtt ggcggaagt gatgttaatg atgctgctta atgaacgaac gatgaattgg 420
gcctgtttct ctgttatcca tgt 443

<210> 5272

<211> 246

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073b06b1

<400> 5272

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cctaattctat ttgatcagat tcaactacta ttttattttg tgtttctagt tggaaaagta 120
taaagggcat gcacgttcaa tctcacgagt gttgtaagct acttgtttgt caagtttcgc 180
ttgaccattg cgtgcttggt gtcgatgttg tgattgtctt cccagggaaa attggtgtaa 240
cacttt 246

<210> 5273

<211> 504

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316073b08b1

<400> 5273

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accagtggtt ggacaacggc ctgcttggtg atccccacga tcagcatgca attgcagatg 120
cactctataa gcttctttct gacaagcaac tctggtcaag atgtagagaa aatgggctga 180

aaaatataca ccggttttct tggcctgaac attgcaagaa ttacttgctg aggatattaa 240
 ctcttagccc aagataccct gcttttccgg gcaatgaaga ccagattaag gcacctatca 300
 aggaaaggaa gtgtatcatc gttattgctg tagactctgc cagcaagaaa gatctggtct 360
 gtatcataaa aaattctatt gaggctacac gtaaagaaac gttgtcaggt tcaacagggt 420
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 tggctcctac agattttgat gctt 504

<210> 5274
 <211> 451
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316073b09b1
 <400> 5274

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 ccgccttttc ggccgcgaga agcccgcca cgccgttctt ggcgggcgca agcctgctga 180
 tcttgatctt atggaggaac aagatggtct tcggaggggt gcttgctggc gctacggcca 240
 tttggctggt gttctaggtc atggagaacc atctgctcac tttgggtggc cactgcctta 300
 ttcttttctt ggtaacactt ttccttttct tcaatgtctg catttttatt tcacaagttc 360
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 actggggcat gagaacaacc ggggcttttt t 451

<210> 5275
 <211> 347
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316073b10b1
 <400> 5275

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 atatttcaac tattggaggt gatttcaaga ttagaactat tcaattagat ggaaaaacta 180

ttaaattaca aatttgggat actgcaggac aagaaagatt tagaactatt acttcttctt 240
attatcgtgg tgctaattgg attattgttg tatatgatgt tactgatcaa gtttcattca 300
acaatgttaa acaatggctt caagaaaatt gatagatatg cttgcga 347

<210> 5276
<211> 166
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073b12b1

<400> 5276

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cccttgctat gtacggcatg acgggggtatt tccctcttg atctacctct tgtatccata 120
attcctccat gaaatccaac ttaattttct gaattctaaa caaaaa 166

<210> 5277
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073c02b1

<400> 5277

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gcccgaccac cgtgacggga agcgtcactg gactcaagga agggctccac ggcttcacag 180
tgcacgtctt tggtagacac accaacggct gcatgtcaac tggaccacac ttcaacctg 240
ctggatcatgt gcatggggca ccagaagatg aaatccgcca tgctgggtgat cttggaaatg 300
tgacagctgg agcggatggg gttgctaaca ttaatgttac tgactgccat atcctcctta 360
ctggacaaaa ttcaattgtt ggccgtgctg ttgtcgtcac cgtgaccctg atgatcttgg 420
caagggtgga catgagct 438

<210> 5278
<211> 427
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073c05b1

<400> 5278

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ggccgctcgt cgtcctgggt ctggccgtgg cgctggccgg ggtggcgctg cgagggggcg 120
ccgcgagggg ggccggcgag tgcgggaggt cctccccga ccggatggcc ctgcgcacatg 180
ccccgtgcat ctggcgggcg gacgagccgg actcggcgcc ctccagcagc tgctgctcgg 240
cggtgcacac cctaggggag agccccagct gcctgtgcgc cgatcatgctg tccggcaccg 300
ccaagatggc cgggatcaag cccgaggtgg ccatcaccat cccaagcgc tgcaacatgg 360
ccgaccgccc cgctcggttac aagtgcggag aatacacgct gccttgatgg ccagctctg 420
gtgctga 427

<210> 5279

<211> 248

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073c09b1

<400> 5279

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taccacgagg tggagtggga cctcgtcatg gaggacgcgc ccacgggggtg ggtgcccgag 120
gcgcccggga ggatgggtgc catctacacc gacggcatgg tggcgcgcg gcggcggtcc 180
ggcgacagta ccaccgacgt gttcgagcac gacgtggacc ggacggagga agacaaggtc 240
tccaagga 248

<210> 5280

<211> 190

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073c12b1

<400> 5280

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atacaggcaa ttttgctgta aatttcataa taaaaataaa aatattaaaa aaaattaaaa 120

aaaaaagtaa aacaaattaa ataaaaaaaa aaaaaaatat attaatataa tatatatata 180
 ttatataatt 190

<210> 5281
 <211> 336
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316073d01b1

<400> 5281

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 gatgcatgcy gtgcaaatgg caagagcccg gaggtatagt atacatgtac tgagccgtat 120
 atacatgtgc tcatcttgte gtacgtacta cgtatctgtc ggtgtgtgaa agtgtgtgct 180
 gccacgcatg tcccccttg gcagtgactg tgtccgtgtg taacattgcc actacttcaa 240
 atgtgtgcac tttagtacat gtgtatgtgg tttctgtaaa caatctactt cgggggtaat 300
 taaccacccg acagaactac agctatctta tcgctt 336

<210> 5282
 <211> 317
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316073d02b1

<400> 5282

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 gcaagtgtac gtcgtcgtgt catcatcagt aagccagttt agtttcattc tctctcctc 120
 tctctcacgt gtctttgaga aattcagggt aaacagtgtg agtcagtcag tcaggataaa 180
 tctcttgctt tgggtgatgt cctcaattat gaatgcttct attccatggt caagattgat 240
 gtttgtaaat caaaaaatta ttcttaacta ttaccattt atcttccttt cctctcactc 300
 ttcaattact accctag 317

<210> 5283
 <211> 410
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316073d03b1

<400> 5283

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gcccgggact tcctcggcgg cattcgcaag cccccggcg gcgagagcag catcgcgctg 180
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ggagcttttt ttttttcgtc gtcttctttg gtgggactga tctgcgaatg accttttggt 360
ttgggtttcc ccctttaaaa aaaaaataaa aggggcgccg ttttagagga 410

<210> 5284

<211> 389

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073d04b1

<400> 5284

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cgacgccgcc ccgatcagca cccagccgcg ggccgaggag gtgacggtg agaggacgcc 120
cgaggaggag gaggccaggc tgaggtaact cgtgttcgtg cagcaggcgg cggcgcaggc 180
ggtcgtgctg gccgccgcgg tctacgcta cgccaagcag ggcgcaggcc cgcttcgcct 240
cggcgttgac cacgtcgagg ggaccgtcaa ggccgtcgtc ggtcccgtct acgaccgcta 300
ccacgccgtg ccgtttgacc ttctcaagtt ccttgaccgc aaggttgatg agtctgtcca 360
ggagcttgat tcttgtgttc caaccgttg 389

<210> 5285

<211> 340

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073d05b1

<400> 5285

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ccttcgacga gtggccgttc ccgccggggg cgggggagag cctgtggagc taccacgata 120
cctagtgagt agtatattgc attggctcaa gacatgatga ccggtgagct ggttggtacg 180
tgctccagta ctataccagt tactaaacct agttaatccg gagtcgatac atggacccccg 240
gccgttgccg ggcattcgtc ctctatctgg tatatatgcg tgtgccatga taggggtatt 300
attgggtgct ggcctgcat attatagccg ttacctagaa 340

<210> 5286
<211> 449
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316073d06b1
<400> 5286

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gatccccaag gccggcgacg atggccgcgg ttcggtgcgc ggcgaggagg ctccggcggct 120
ctctgctcca gcgaacgcag gccggcggtcg cggaggaggg acgcctgctc gcgccaagca 180
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agcgacacct cctcgagcca ggcagcctca tgcgctcccg ccagctctcc ggcgagcatg 300
ctcgcaacat tcagaagaaa gaggatgact gctgggcggg gttcaatgag acgctaaga 360
ggttggaaga gcttcataaa aagaagaaac caagtgtctt tcagcagcgc atgatattca 420
tcgaccgtgc gttgaagagt ttgtctatg 449

<210> 5287
<211> 468
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316073d08b1
<400> 5287

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agggatgata ccatcattgt gaagcagggt tctctcatcg acatggctgg ccctaagcga 120
gggatagatt tgatttccac tattctagtg gaatatgaca tgcggatcaa ggtaggtgag 180
gaagaaaggg atgattacca gctgattgat ggtgtaacag acatagacga cctggg'ccca 240

<210> 5290
 <211> 237
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316073d12b1

 <400> 5290

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 gcgattaaag cagtctccgt cgatgcctac gaccccgacc acgtcggaga cgccgtcttt 180
 cgttacgccg tcgtgtggtg gaagctttgt ggcggagcgt ttttcacccc gggagca 237

<210> 5291
 <211> 462
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316073e02b1

 <400> 5291

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 cgctctcttc tcgctgcagg agccggccga ggatcatggag ttctctgctcc gcctcgtcga 120
 gtggaagcag ctctccaggg cgcgccctcag gctgcggcgt caggccgacg cctgatccaa 180
 cggccggact aattaattca ctacgtgtag cttaattagc tagttaatga atccccctgct 240
 catccgaaca aagccaaagg ctacgtacgt ggatgggaag aaggaacgta ctatggcgaa 300
 cctgtggctg tggagcattg ttgcgccaca tgttgtgttc taattaaccg cccttctctt 360
 tgtggggatg tataccgtac ctaccgatta tgcattgatg taaattacct ttgggtacgt 420
 acaaggggag gaacatgga ataaagaaag agcaacctga gt 462

<210> 5292
 <211> 428
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316073e06b1

 <400> 5292

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tccacggaag tggaacacaa ccgaaagaag cacacagtat gtgaagcttt ggaatgggtc 180
agtcagcgaa tcagtgaaga gcgagcccta cctagcattc agcatcctct ttattttcct 240
aaggatattc tcgttcttct tcccaaagtt cttcgctgc atcaaaggct tgtgggctca 300
atacttccgg cagccaact ttggagtccc tgccaaattg acgcagctgc tcgaatgtgt 360
gccccatgcc gtggatgtaa ggaagatgtg gagcaaatga ggcttatgtt tggagcaca 420
acatgaga 428

<210> 5293
<211> 387
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073e07b1

<400> 5293

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ggagaccgc ggcgtgctca agatcttctc cgagaacgtt atccgtgacg ccgtcaccta 180
caccgagcac gcccgccgca agaccgtcac cgccatggac gtagtctacg cgctcaagcg 240
ccagggccgc accctctacg gattcggcgg ttagggcgcc accagatcag tagctagact 300
gtcgttgttt ggtagtacca gcagtgtctg tggctctctt gtgtaatggc agaatctcgc 360
tgctcgtaaa cccttgtaga ttggatg 387

<210> 5294
<211> 227
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073e09b1

<400> 5294

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tctcttcatt ttactgttcc atgacaacag cgtttcattt tattcatagg gttttacta 120
ggcgttttct aaaaaagggc tcccagattc tagtgaaga actaagtagt tagtggcgca 180

atccactaac atgtaatcgc tacctacgaa tatgtaatgt tacgatt

227

<210> 5295
<211> 472
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073e10b1

<400> 5295

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accatctaca aggaccacat caccctcggc gactactaga tccacgacgg catgggcctc 180
gagctctact acaactagcc ttcggccatt gcaggttggc cacctattgt tgcctgtgat 240
gatagttttg gttgcattcc agtcccagtg ttttcagagc tcaatgtgtg ggctgaactt 300
taacgagcta ctatataagt agtgcattat tgtacccatg atgatttatt gacagcctga 360
acatactttt tctgtgatcc acctgcgaaa ttaatgtgct tgatactgtg aagtttataa 420
attacataaa ctgggttttac ttgggtttgg ataaaaaaaa aaaaaataaa ag 472

<210> 5296
<211> 197
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073e11b1

<400> 5296

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aatttgtaca aataaattta aacaaaaaaaa actgcagaaa tagacaaaaa ttactaaaaa 120
aaacttgaat tccggaattt atctcagaca caaacctct taaattaaag gggggccct 180
tttaaaggaa ccaattt 197

<210> 5297
<211> 210
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073e12b1

<400> 5297

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gagtttcagt tatgtagttc tgctgtcagg cactcgggct atgttggtgc gtcgccgggc 120
caggactaag ctgaattttg tttgttcgtt gcaacagaag cttatctgta aatagctgaa 180
ctaactactg cttacaggac atcacagttt 210

<210> 5298

<211> 407

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073f02b1

<400> 5298

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cagcagcaca gttaactact tcaaccgaag ctaaaaatat ccatccctcc attgggcccc 180
ctcattttga ttaggggtaca acacatactg ggcaactaag cccacggaac aattatctcg 240
gagcccaaatt ccaaaaatcc cggtcacccc ttggagctta ccaccgttgc aaccacgcgc 300
agatacacia accggaaggg attaataccc aggtctcaca cccccacctt ggggggggcc 360
ccacggcccc tcttggcagg agcgggtgcc gccccggga cccgaaa 407

<210> 5299

<211> 501

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073f04b1

<400> 5299

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cctgtgctct ctaggtcttc tgtgagtgtg gggtggcaag atataatagt taggagtttg 180
ggcccaaacc gctctgtaca tggagtcagg tcagattctt gtagacagtc tgtttgttta 240
atctgttatg gtctctacaa tttagcttgc aggactggat cttgatctgg tctggaaatg 300

aagcttcata tgggtgtgtga acatatggcg aaggggtactt gaggcaggtc agtttcccat 360
 gtttggtcac attgatttgc tggattcctt atctgtgctt ggtgacctca gatttgagtg 420
 gctttaccct aattccttga tttatgtttg gctgatggct gtttgggagc cttcttctgg 480
 atggggaaat tttttgacct c 501

<210> 5300
 <211> 463
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316073f06b1

<400> 5300

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 cgtctacaac tggggcgtct tcttcggatg ggcgcgagtg ctctacttcg ccgtggaggc 180
 gctgctccgg tcggggcacg aggacgtgta cgccgcgcgc gagaggccgc tccagctcgc 240
 gcagaccgcc gtcgtcctcg agatcctcca cggcctcgtc ggccctggtga ggtcgc:cggt 300
 gtcggccacg ctgccgcaga tcgggtcgcg cctcttcgtc acctggggca tcctttggag 360
 ctttcccagag accaggacac acatcctggt gagcttcttg gtcattagct ggtccatcac 420
 cgagattatt aggtactctt ttttcggcac aaaagagctg ttt 463

<210> 5301
 <211> 205
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316073f07b1

<400> 5301

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 tattatcatt ttgcttagtt cttctgttgt tttttagctt aagtagcctg ttcggc:gatc 120
 caatgcattg gaatacttca atttttagtc ttggctgtaa agtgtataca cttttattca 180
 ttgtttaata ccaatgtgat gaagt 205

<210> 5302
 <211> 292
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316073f08b1

 <400> 5302

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 cggtcctttc tcgtgtgaag tatctgtttt ctgctgactc ggttgcttct gataggcggtt 120
 gagtagcaac cttgttgata actggggcat cacactttga ttgagttctt cgtggacttg 180
 ctccgtgtat ctgtattaaa ttattcatac cattctgttg tgggcgcacc aataaggagt 240
 aaacaatttg gattgcacca acgggttaat gtaataaatt cttacttttt tt 292

<210> 5303
 <211> 302
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316073f09b1

 <400> 5303

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 cagatatagt acactctcat gacttatatt accagctgga ttaaataagt ggcgtgttgt 120
 acccaccacc atcaagtcat tccatgctat ataatgtcaa gatcaatcaa gattacggta 180
 tgacgcccac gtaaatcttg tgggtgtcct gacttacttt tctagcttct atggagcata 240
 agtatgtgtg tgctgggttg actatgattg tgtaatgata tatattaaaa ttctactttt 300
 gt 302

<210> 5304
 <211> 91
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316073f11b1

 <400> 5304

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 atgaaccctt tgtggtgtcc tgtgtttgtc c 91

<210> 5305
 <211> 309
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316073f12b1

<400> 5305

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 gatcaatgag caccgagcac aaacgtactt ggacctcgga atgttgcttc tgccttctat 120
 gtagttcctg aaataaggga gccgcaaggt cgtctgacgc cattcaaacc ggccggtgct 180
 caggggtggag tggcaccag taaagctcag ctatctcttg atacatctca caattaaaga 240
 gcttatgtgc tattgctcca ggaggtgcta gattaaggct tgctttagt tcttgatcg 300
 gatgttttc 309

<210> 5306
 <211> 366
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316073g03b1

<400> 5306

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 cggatcaaag gttaaagcacc aactagcaaa agtgaagaaa gctatcatag gcaagcctgg 120
 gcacacaaaa tctgaattac caaaagcttg agactgcatt caccttagtg tgtgtatatt 180
 tttgttacta tttgtacatt tgtatgctgt ttacttgagg tgtagtatga ccgtgatggg 240
 actagtaaac atcaagggtt cgctatggcc attgcattga aatgttgtgt gattgaagaa 300
 cgatttgtaa attaaaaaaaa taaaaaaaaa aactcattct aaatataata aaaaaataa 360
 tacatg 366

<210> 5307
 <211> 243
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316073g05b1

<400> 5307

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaag aatgaiaattg 120
ataaaaaaaa aaataataaa cagaacaaaa gcaaggagaa taataaaaaat taaaaiaaaat 180
aaagcttatt caaaatcata aagtgggggg gtctgttcaa agggggataa aattcattcc 240
ccg 243

<210> 5308

<211> 338

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073g08b1

<400> 5308

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gttcgtgcat gttcttcttc ttcagttcct atcgcccttt gccttttcgtt gttcgtgcgt 120
tggtgttgat cgacgtgtgg ccttggtggt aattgtgtag ctgctctgcc gcagctttac 180
ctaaagatat tattgtcggt gtattttggg gtgaatcatg ctaatactat gtgggtcttt 240
ttttgcttgt attattactg tcctagtaaa aaaaaaaaaa aaaaaaaaaa taaaac:caaa 300
aaataaatta aaaaaatata ataaatatat aaccagg 338

<210> 5309

<211> 399

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073g09b1

<400> 5309

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gcgggggcgcg acgtggcggc ggacgtggcg gcggaccggg cggagtgctc ggacaagctg 120
gtggcgctgg cgacgtgcct gacgttcgta caggggcagg ggcaggcgcc gactcggac 180
tgctgcgggg ggctgaagac ggtgctgcag accagcccca agtgccctgtg cgtgctcgctc 240
aaggaccgtg acgaccccggt tctggacttg aagctcaacg tcaccagggc gctcgggtctt 300

cccgccgtct gcggcgcgcc cgccaacatc tacgactgcc caaggctact gaacctgccg 360
 cccaatttca aggacgcgga ggtcttcgag cagtttgcc 399

<210> 5310
 <211> 406
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316073g12b1

<400> 5310

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 gcgccgcgga gatgatgatg gtggcgccgc ccagggccgc ctacgacgag caggacgagg 180
 acatcggttc cgcgtccgac tccgagtga cgtcgaggag ctgacgtcc tcttgctccg 240
 acctcgccga cgacgccagc tctctgtcct cctcgagctc cggtgaccac ttcgagatgt 300
 ccgccctcat gacgcagctc cccatcaaga ggggattgtc cttgttcttt gacggcaagt 360
 cgcagtcgtt cgcgtcgctg gcggccgtgg ccttcctgga ggacct 406

<210> 5311
 <211> 538
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316073h01b1

<400> 5311

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 ggagaatata aaggaagccg tcaagagttg tgtgaagatg gcagccagga aaacactgag 180
 caccaacaac aatggccatc tccacaacgc acgcttctgc gagaaggacc tgctgctcac 240
 gattgaccgc gaggcgggtg tcgcgtatgc agatgacctc tgcagcgcta actaccact 300
 aatgcagaag atgcgtgcgg ttctcgtgga gcacgccttg gccaatggtg aggccgagcg 360
 caacgtggag acatctgtat ttccaagct tgccgcgttt gagcaggagc ttcgtgcagt 420
 gctaccaaag gaggttgagg ctgcctcgac ctccgtggag aacgggaccc gcgcgc:aaac 480

gaaccgatca ccgaatgccg gtcgtaccca ctctacaggt tgggtgcgcaa ggagcttg 538

<210> 5312
<211> 303
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073h11b1

<400> 5312

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cctgcctctg gcgcgtcagc tgccgccccca gctgttgcca tggcgtcctt gaccgcgctc 120
gtcttcggct acttcttctg aggccatgtc cttgtgcgcg cagttatttg ggatttttct 180
ttgggttcgtc tcgtgttcat acatgatatg agtacatatt gtaaattaca tgttcttttc 240
tatttaaata gaaaaattgt tgggtacaca catttgttta tttgataaag gatgcttttt 300
agt 303

<210> 5313
<211> 79
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074a01b1

<400> 5313

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aaataaaaaca aacaaaagc 79

<210> 5314
<211> 283
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074a02b1

<400> 5314

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catacccggc cgagtagtcg gcacgattaa ccttatgggtt gtttgtcata tatggctact 120
gttaggatgg gcactagtat aacttggtat aattgttaaa aatgactatc gcctatctag 180

tgttgattgc ctcggtggtat atttgaagta aactaacgac ttggagcgga cattttctcaa 240
gtttgGCCCA aaaaaaagaa acataggtgg ctgtgctaaa tac 283

<210> 5315
<211> 366
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074a03b1

<400> 5315

cccattctac cgcccacgcg tccgccaca cgccggcg cgctttttga gagggcggc 60
cttttttttt ctttttgatt gaaacacata aacttgtttt aatcaacatg aacagaaaaat 120
aatcttaggc tctaactttg gccatttggc atttgcggtgc taactagaga caaaggggat 180
taaggagggtg gtcgtgcata tatgtaggca ttctcgact tgggattcta cttgtgatta 240
catcacgccg gtccatggac acatcgctgg ctgtgctcat tccatacagc cgtcgtcaga 300
gccacgggc tacgaacacc ataccgccg ccacacagta aaaccgagcc agaggccttg 360
ctgcgc 366

<210> 5316
<211> 116
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074a04b1

<400> 5316

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ggtgctttta tctcctctc aaaaacatcc attcgtctgt tgtaatcctt atactc 116

<210> 5317
<211> 314
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074a05b1

<400> 5317

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gtctacacag cccaagccca atgtgaggcg aaggaccagc cctaccaaga atcacagggc 120
ctagatggac ctcatgccaa gctacgacga agatttagac cttccttcat aaagcagata 180
acaggcatca gttcttttaa aagtagaaca ctgaagtcac tcaccactca acatggcctt 240
ccactctaataaatcatgct gcacgcccgc gtgcatgcga aaatctaaac attatattat 300
gcactcaact actt 314

<210> 5318
<211> 422
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316074a06b1
<400> 5318

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gaataacatc caccagcact ttgaaaataa caaggcggga tacgccgaga ataacaagaa 120
caatgctgca ctcatccaca ctgataccgc agagtatata gctataatca aagcaaagaa 180
atggcaagag ctctcaaaag gcgaggatat ttacaccaac taccgggcca cctgacacta 240
tgccaagaaa gacataggat gtttcggggc cttaaagtaa aacctttcta attcacaat 300
gcatcaagat tcaatgaagt gttcatccct ggctgcttgc ttagttactt cttactttca 360
tcctcccaa gtgagtagtg tacctttttt gtaaaggcat ccaatctcta tatacacata 420
ca 422

<210> 5319
<211> 246
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316074a08b1
<400> 5319

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ttaaccacac ctatgcacga tataccgtcc acatgatgga acaatgcatt ctcatcttta 120
tcacgatttg ttgctagtta ctactataac tgcctagatt ggggaactgc accattgtat 180
atgcctattc gatggccagt gcatcagata tcacggagtg aacaccacac ttaaattcat 240

tcaccc

246

<210> 5320
<211> 501
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074a09b1

<400> 5320

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gtactgcacc acggaggcct tccggatcct tgccaacaac taccattccg tcgactacca 180
tgccacctat ccagagatcg aggcgctgat ccaggagggtg acggtgacgc ctgcagaggt 240
cgccgagggtt ctgatgagga acgacgacac tgatgttgcc ctccatgac ttgtcaagct 300
cctagagtta aagaagaaag aggccactga gatcaagact gaaagtaagc aggcggagga 360
gcagaaagac ggcactgaga agatcaatac tgaaagtaag caggcggaag agaagaaaga 420
tggcgatgag atcaagactg aaagtgtgca agtggaggag aaaaagatg acaacgaggt 480
ggtgctgaag aatgagttga c 501

<210> 5321
<211> 480
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316074a10b1

<400> 5321

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ccaatctcta ctcccttgag tgatcccatc aacaacaagg tccatttgct caggacaatg 180
cttcaatggg aggagcaagt acgccgtcta gcatcggtag cggagagaag tctcggtctg 240
ctgaccgatc caattcttcg tgaggtggcc atcatctgct ggccgtatgg gaagataatg 300
aggatgagta ctggcagcac agctgctgac gccngtagaa gacatggtgt ngattggaag 360

ctgcttttggg tgaatggcca acttgtgctg cctcaaaccg agctcaanga tggagatata 420
gtggaagtga ggacgtagta attctcaggg taattgatca gattgggtca ttgatacata 480

<210> 5322
<211> 420
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074a12b1

<400> 5322

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taataatgta ctcgtagcat acaaacattt cctgagtttt acaacttaca acaacaggcg 120
ggtggatcag cggcatatat ccctcttagg tgcagaaact tcaagccaga ccaaaattta 180
ggggcggctg tctgcaccga cagtccggcg ggctcattca acgtgatcgt ctactacggc 240
ttggttggtc gagaacaatg tctccctttt cttggggaaa ccaggggggt ccataactgg 300
gcctcggtag ttccagctctg gagtgggtcc tctaagccca ggctcggccg aaacaggtcg 360
atacggaaat accgcttgcc cagcatacct agtaggggac acataccttc tcggagcact 420

<210> 5323
<211> 479
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074b02b1

<400> 5323

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gcagatccct tcgccagcct ctttggtccc gggtaagca agcgaacagt agctgatgga 180
cttaggggag cttttgcaaa gtctggtgaa gtcgtgcatg gttctctttt gacaaacctt 240
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ttgacagtgc gtaaagaata ccgcaaagta cttccttctt tcataaggcc atctgcatct 360
tactccacac aagcttcaga aaaaagacca aaacaggaga gaacagactt gacgactgtt 420
gaagatccct ttaatgcgcc tacctacaat atacctgaga agccagtgc atttgtcga 479

<210> 5324
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074b03b1

<400> 5324

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ttgttagcaa ccgtcgcagt agtggatgat gatccttcat ctgttaaccg gaaaaaggga 180
gtttgtatca acgaagatgt gaatcccgtt gaaagcgttg aggctagtga caggcgcacc 240
cgcaggaggg tttaggcgga ggctgtcaac taatgtagct atttgctgtc tcccatgaat 300
tttactatgg ctggagttat gtcaagtgtc ctgtgacagg aactttgatt tgggtgagag 360
caacttgtga ataatctcca gcattgacgg ctttctgtgg cattagtgc aac 413

<210> 5325
<211> 225
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074b04b1

<400> 5325

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gaatgagtga tatgtaacta caatgcatgt gttcctttgc aactgaattt ggaatcttcc 120
aaagataaaa ctgtcatgga gatttcgcca gtagtctgtt tagtgggtat ctaagaaata 180
tttgtaaatt cttggtcgtg aaaaaaaaaa aagggtgcgc gatct 225

<210> 5326
<211> 558
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations.
<223> Clone ID: uC-tsro9316074b05b1

<400> 5326

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 gtgcaacacc ggcagcctca tagacatcgc cacctcccc gtgttcccga acgcgcagggt 180
 ggagctgcgg tgcgcggggc aggtggtggc cggcgcgacg accaacacca acggctcctt 240
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 ggtggacacg ccgctcatca agtgcgacgc gcagctgccg ccggcggaga agctggtctc 360
 ctacctgcag ggcccgtca ccaggctgct cggcggcatc ttccacctct taccgcgggg 420
 cttctccttc cacagccgat gagattagta gttcactgtg tcgtcgggtcc aaccatctca 480
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 aggcangtta caggagct 558

<210> 5327
 <211> 460
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316074b06b1
 <400> 5327

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 ccattgccgc ctacaacaag ggcgagagtg ctgctgctgc tgccccaag aaggcgcg 180
 ccaaggaggt agaggaggac gatgaggagg aatccgacaa gtccaagtcg gagatcaatg 240
 atgacgatga cgatgagggt agcgacgagg acgaggacga tgacgagtga agctgacaat 300
 gcgggagctg ctgtgcgaga agcgacctga gctgtgtgcg gtggtgtcat aaggagccta 360
 tccatctcca ctagaattat cccaagtttc acttcacatc gtgatgctgt ttaccttat 420
 ttcttgtcat tgacctgcta taacggatag cgctccctgt 460

<210> 5328
 <211> 538
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316074b08b1
 <400> 5328

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 tcccagtctc tttctccttt caagaagaat ttctttgggt tgagggagct gctgttcttg 180
 gtaggacagg ctaggccaga tctgggggag aggggtgggtc tgttggtccg cttgaaatct 240
 ctgggttttg ttgcgctgga ggttcttgct ggccatgggt tgtccaggca tgctgaggcg 300
 caatctctga gctttatgaa gatcgccact cacctgcgcc ggtgctgctt cctacagtcc 360
 ttctccgacg tcttctctta ctacttttat gtgatctcat aattgcccct ctacaatccg 420
 ccgtcgctag cagtaaaacta tattcctcct tttcttgctt ttcttgcttc ctttttctgc 480
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<210> 5329
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 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316074b11b1
 <400> 5329

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 actcgattcg attcaatgag aaaaatcaaa gtcaccgcac attctcagtt caaagctgaa 180
 gagcgcgagg caagtgggtg ccgacgcgac gaccaacacc 220

<210> 5330
 <211> 489
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316074b12b1
 <400> 5330

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 ggcagaagcg cgcacggcgg cagcactac aagggtaca ccatcccca caacaagcgc 120
 tggcacacca tcgccggcaa gggcctctgc gccaccatgt ggttttggat tttctacagg 180
 gctaagcagg atggcgctgt gctcttgggt atgcgtcatc cttgggatgg ccatgatgat 240

cacgcgcatg gtcattggaca tgcacacgag catgaggctt cgtcgtcgtc atcgccgtcc 300
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aagtctctgc taataaaaaa caatcacaac tatcattatt caccctgtt gtttgcaagt 420
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gtggaatgc 489

<210> 5331
<211> 140
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316074c01b1
<400> 5331

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actttgtggg gcgtcctttt 140

<210> 5332
<211> 485
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316074c03b1
<400> 5332

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cttggaacagg tcattcaact ccagggtgat cagaggaaga acgtctcaaa ctctctgtc 180
caggccggca ttgtgaagaa ggaacacatc aagattcatg gtttctgagc aactgcacgc 240
tccatatcag agtctacatg caaagcagct atatattggg ggtgcagtat atttagttgt 300
gtgctagcgc tagcaggcgt taccagcttg cgcgtctga gtatacagaa aatctagcat 360
agcccacctt tctgctgta tgcttggtac cgttgtgttg aaactttgta aggagcaccg 420
tcttttagatg gcttgttacc ctcttccatc aagggtgaat aatatatgct tttgtaagcg 480
tgggt 485

<210> 5333
 <211> 540
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316074c04b1

<400> 5333

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 gctgggccgc gggaaaactc ccgaagcgcc acctgaagca ctggaatcac tggaggttgg 180
 tcctcctgtg atcgagtgat ccatcagcct ctgtagataa cgctgctgcg gggaaacgctg 240
 cagcccctgg gagccccctc caataatcct cccggtgcga agaagaggaa accgggcctt 300
 gtatcctggc aactttgtcg cgttgtacag taatttagct tcgagtcact cgttaggtcg 360
 gtcacgagag ctgctaccca gtctgctcca gatgcagcaa tgaggtcggg cggtcggttt 420
 atcccacact gatagttgtt taattcaaaa aggtcatgta ctgctgtcgt attaggggca 480
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<210> 5334
 <211> 533
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsro9316074c05b1

<400> 5334

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 gctgggtgtac ctcatcctcg cccagtcctc ctccgtcttc tccaccacca agaccctggg 180
 gctcccgcgc gcgcgctccc tcagcgcccc ccgcatgggc gcactgctct ccgacctgcc 240
 gctcggcggc gaaccctcgc cccgcgccgt ctccgtggag ccgtcgtcgc ccgtgcccg 300
 gcacgcccac cagaagaagg attagttgac agagctggga ggtggctact gtctagcgag 360
 cgagcgtatg cacgttgttg gttccgtgcc aatggttggg gcctgccgtg ggagtttgct 420

agctattcac gccattcttt ggtgggttcat tgattgggtcg gtttgggtctt tgagatttgca 480
 tatatgtaaa ctgcacgccg ttttggattg acaaatgacc gtctaagatt ggg 533

<210> 5335
 <211> 536
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsro9316074c07b1

<400> 5335

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 gtaaccctgg tgagttcacc atgctggagc tggccaaggt tgtccaggac accatcgacc 180
 cgaatgcacg gatcgagttc cgtgagaaca cccaggacga cccgcacaag cgcaagccag 240
 acatcaccaa ggccaaggag cagctcgggt gggagccgaa gatcgccctc cgtgacgggtc 300
 ttccccctcat ggctactgac ttccgcaage ggatcttcgg cgaccaagat agcgccacca 360
 ccgccaccga aggccagtaa agagtagacc ggagtactat actttgaaat tttggtggcc 420
 tgcttctagc ttgcttcttg gttaatcccc cactgacag agctatggcc acgtatcggt 480
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<210> 5336
 <211> 288
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsro9316074c08b1

<400> 5336

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 atctcgtaaa actctgaagt gtgtatgtat ggtgtgaggg ttgtcagaca ctcgtttggga 180
 taagtgaact tctgattgtn aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaata taaaaataa accaaaaa 288

<210> 5337
 <211> 465
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316074c09b1

 <400> 5337

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agagcccgtt cctcctcgcc tccaaccccg tgcacaagag ggtgccggtg ctcatccaca 180
acggcaagcc cgtccccgag tcgcagctca tcgtgcagta cgtcgaagag gctttcccgg 240
ccagctcccc gcgctttctc cctcccgacc cgcacgagcg cgccgtcgct cgcttctggg 300
cctcctacgt cgacggcgag ctgctcaacg cgtggctgcc cgtctacggc ggacgcaccg 360
gcgaggagag ggcacaagcg gcgngcgagg tcggcgccgc cctggagaca ctggagcgag 420
cgttctggga gtgctccaag gggaagggct tcttcggcgg ggaca 465
  
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<210> 5338
 <211> 498
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316074c10b1

 <400> 5338

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aggcggtccc cggggccgcc gggttccacc tcggcggcga cgagagcggc ctcgtcggg 180
gcatgctcgc cgccgtccgc gagcggggcg aggccgagga cgctgcgcgc ttcgccgtcg 240
ccgagcacia caggaagcag gggctctgat tggagttaca cgggttgca acgcgaaaag 300
gcaagcgggt gctgggacct tgcacgacct gatggtggag gtagcggatt ctggaaagaa 360
aagtatgtac aaggcaaagg tatggccgaa gccatggcaa aatttcaagg cagttctcga 420
gattcgccat gctggggact tgcagaatga gtcttctggt ggctctgatg gtagcactgt 480
gcaagctatc ctcaagct 498
  
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<210> 5339
<211> 495
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074c11b1

<400> 5339

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aaccaagccg ccgacgccac catgggtatc tcgcgtgact ccatgcacaa gcgccggggc 120
accggaggga agcagaaggc ttggaggaag aagcgaaagt atgagctcgg ccgtcagcca 180
gccaacacta agctttcaag caacaagaca gtgaggaggg ttcgtgttcg cggaggtaac 240
gtgaagtgga gggctctccg tcttgacact ggtaacttct catggggtag tgaggctgtg 300
acccgcaaga cccgtctcct ggatgtggtt tacaattcgt caaacaatga gcttgtgagg 360
actcagaccc ttgtcaagaa tgccattgtg caagctgatg ctgccccctt caagcagtgg 420
tacctgactc attatggagt cgaaatcggg aggaagaaga aagctgctgc agctgccaag 480
aaggaacctg ctgag 495

<210> 5340
<211> 573
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074c12b1

<400> 5340

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tcggcacggc cgtccaagaa gccgcgcgtc ggcggccacg ccggaccagc tgccggggccc 180
gtgatcgtgt acgagcgcac gccgacggtc gtccacgccg acccacacga gttcatggcc 240
gtcgtgcaga ggctcacggg caattgcaag cagcggccgt cgacggcggc gatgacgttg 300
ccaccagagg cgacgtccgg atccggagct agggacggca gggcctcgac gtggacagca 360
gcggacgctt tggttctcag gcttggccag cagcagcgtg cgccgtgtgg tgctcatcat 420
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ttttttcccc gaccaccatg caggcgatac gggagctcat cagctgagag tcagcttgtg 540
aaatttgaag atcgatccgg cctggtgtga tca 573

<210> 5341
<211> 557
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316074d01b1
<400> 5341

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agcgacaagt cctgtgtctg gcacgcgga gactctgctg acggagaact taaggatgag 180
atgtttgcc tccggtttgg caccgttgag aattgcaaga agtttaaaga cttagt:tgat 240
gagatcgctg agtcgcttgc aaagaatgaa ggcggtgaaa gcgaagaagg ttcttc:cgca 300
gctggactgc tggagaaaact tagtgtaagc gaaagcaaac ctgaggaaaag cgcata:taag 360
gaggaatcaa ctgatgctag caaggagaca gaaaccaaag ccgcgacagc cccctc:agag 420
tagtgggcag agcaacgccc gtcacaatgg taccgctgag catagctcgg tggcaagagt 480
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gaactttttg agacagt 557

<210> 5342
<211> 432
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316074d02b1
<400> 5342

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actgaatcta gcagccaata tttccctcaa tggatttatg aacatctaga tgaatattgt 180
gttagtgctt ctgagattaa tggagaaatc acggagggtg tgaggaagat gatagt:gggt 240
gggctgtggt gcattcagtt acgttctaca gatcgccaa caatgactag agtcgt:cgag 300

atgcttgaag ggagcacaac tggccttgaa ttgccaccaa aagtgcctctt gatttgatag 360
 gtttatattg ttctcgccaa ctactccag tattgcctaa tctgtaaaca gactgaaaat 420
 tttaaatttt ca 432

<210> 5343
 <211> 180
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316074d03b1

<400> 5343

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 gccattgat gccgtgctg ctaagaataa ctagtagtac cgctggaggg atttctccag 120
 ttctcgctc tcattttatt cggatgaatt tgatcgattt tgaatgaaat tctcatTTTT 180

<210> 5344
 <211> 423
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsro9316074d04b1

<400> 5344

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 cagctaacc ccaactgatat tgctgtcgag gccctgcaaa agattaagaa ttttgtcact 180
 gagcattcca tggccagtgg cccattccac gacttataaa ttggtgccat gagacgaacg 240
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 tcgctcaaca ttattgattc attctttata ctgaaaaagg agctgtgctg aagcatgctc 360
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<210> 5345
 <211> 463
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074d05b1

<400> 5345

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tttttgtaga ttgaatcggg tgttctatac gaacaatcct ggagatgctt tggctctcacg  240
tgctcctgat attgcaaaat ttcaactgga aatagatagt tcatctggca acttttgtgc  300
aacatcttct ctccatagat gtgcatctga tgacttccat ttctcgtttt ggtagagagt  360
tcccacgatg ggatgggttac aaacttaaag tccaagtgcac tataaaagaa acaacaaaga  420
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<210> 5346

<211> 439

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074d06b1

<400> 5346

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gaagtactac tctcgatga cctcgcactt ccacaccaac aagaagggtgc tcgaggaggt  180
ctccatcctc cagtcgaagc gcctccgcaa caagggtggc ggcttcacca cccatctgat  240
gcgccgcac cagcgcggcc ccgtgcgcgg catctccctc aagctgcagg aggaggagcg  300
tgagcgccgc atggacttcg tgccggagaa gtcggcgctc gaggtcgacg agatccgcgt  360
cgacaaggag accatggaca tgctggcggt cctcggcatg gccgacctcc ccggcggtga  420
gcgcgcccc gaggccacc                               439
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<210> 5347

<211> 524

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074d07b1

<400> 5347

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agaaagtcct ggagatcctt gaccatttgg aagaagaaat ggtgtctgag cgcaaaaaa 180
tcgaagcacc tccacccctt gcagcagaga gttttatgtc accgccacca ccatcatatg 240
acgaagttaa tggcatgttt gcctccactt ctgctgatca ggcagttaac tctgtcgact 300
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cagttggcga catcgttatc gtccggaaga tatcaagcaa cggttgggcg gaaggtgaat 420
gcaagggaaa agcaggatgg ttcccatatg cttatgtcga aagacgcgag cgtgttctgg 480
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<210> 5348

<211> 488

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074d08b1

<400> 5348

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ggagatccat ggcggagacg gagtaccgct gcttcgtggg cggcctcgcc tgggccaccg 180
acgacaacaa cctccagcag gccttcagcc agtacggcga gatcctcgac gccaaatca 240
tcaacgaccg cgagacgggg aggtcccgtg ggttcggctt cgtcacgttc ggcagcagg 300
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ccgtcaacga ggcccagtcc cgccgctccg gcgggtgggg cggcggcggc ggctacgcgc 420
gccagcgcgg cgggtggcga ggctaccgcy gcggcggtgg cggctaccgc ggccagggcg 480
gcggcggc 488

<210> 5349

<211> 370

<212> DNA

<213> Triticum aestivum

<400> 5349

<210> 5350

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atcaggatcc	tcctccagaa	aatgtttcag	ttcccttgcc	tgacatggtg	ctgcctcctt	180
catttgattg	tgacaatccg	acataccgtt	accgatttct	ggaaccaacc	tctactgtcc	240
ttgcaaggcc	tgttctagat	gcgcattggg	gggatcatga	ctgtggctat	gatggtgtaa	300
gcgcataaga	gtcgctcgct	ctccttaaca	aatac			335

<210> 5351

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 atcttcccg cctgctccac gtgtgtctcc agtgagaaac ccaccagcg cagcccgtca 180
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 tatgactcca atggacaacg ctgctgatga caagtgtggc aacccttcca aggcttcca 420
 agattgcatc aaccactacg gcagcgacat cagcaagtgc cagttctacc tcgacatgct 480
 gaacgagtgc cgccgtggag gagcaggagc tggtgcaact ctttaagcta ctatctttgc 540
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<210> 5352
 <211> 317
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316074e01b1
 <400> 5352

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 tctgcgttct gatgaagaaa atcagcagcc agagttgtat ccagggtagt gagtggacag 240
 agacaggatg tgtgccgatt ggaaattgta ggactgcgca tagatgcacc atgcggjattc 300
 tgatcgatgc aatcata 317

<210> 5353
 <211> 384
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316074e02b1
 <400> 5353

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 tggattcagg ggtctacatt tagccggttc tgagtgtgct tccccctgaa gtcactcatt 180
 ttgtctgccg gacagctcga ccagcctccc ctcccatata gtatcggatg atacactagg 240
 acatgaggat taaggcacca attgtactgc agccagacgc cattggaagg cgcattatta 300
 tttttgtact gatgatgaga gtagacgaga gcattccatt ctttctgact tccacttgag 360
 atgggcataa acacattggt cact 384

<210> 5354
 <211> 450
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316074e04b1

<400> 5354
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 catggactgg agaaccaata aaagtagcaa caaaattcat cgatggggac cttgacgtta 180
 catacaatgt accgggagtg aaagactaca ttcacaaggg tggcttgaaa gcgagcgtgc 240
 cgaatctgga ggatgtgggt gtcatggagg gagtgagtca cttctgcaac caggagaagc 300
 ctaatgaggt ttcagattac atctgcgagt tcttcagcaa gttctgatta tatcaagaga 360
 gtcttggcga acctacttgt ttcggtgctg tttatgtact tataagttgg cgattacaca 420
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<210> 5355
 <211> 67
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316074e06b1

<400> 5355
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 ggggttt 67

<210> 5356
 <211> 289
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsro9316074e07b1

 <400> 5356

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 tattecgacct tgcagtaaata tacacaatgg tacaggtaca ctacatggga tacaccaaca 120
 acgggtggta aataaaaact tctagcagaa acaccacaaa ccagatctaa cttattgctg 180
 gcaacaaatc aaattgtcta ctgataagtc tgatctatat taagggtttg taatcacaga 240
 tatgtagtca cacttgagca aaacctgcaa gactagttct agatcgcca 289

<210> 5357
 <211> 142
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsro9316074e10b1

 <400> 5357

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 tgtttctcta tggaagaatc cg 142

<210> 5358
 <211> 469
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsro9316074e11b1

 <400> 5358

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 cagaagaaaa tggatgaggt gctgaggacg aggagactga ggatgatgat gctgagcagat 180
 gtgaggattc tgtcaaggcg caatcctctt cgaagaggaa gaggtctggc gcggagcagat 240
 aagatgatga tgacggtgat gatgatggtg atgatgatga aaagcctcca tcaaagcagat 300

agtcactttg ttcttgctga tctggcatct tttctgcttg ggccaagaag gaaaataatc 360
ctcacggaga gggctgctgg taaatgctgt agcttttagga catctgtggt aggtgtagca 420
actcgaactt gagtctacgc atgttagttg ttagtgcata ctgctgatg 469

<210> 5359
<211> 450
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074e12b1

<400> 5359

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gtcgagaagg cggcgagaa gacccccgcg ggcaagaagc ccaaggccga gaagcggctg 180
ccggcgggca agacggcgtc caaggaggcc ggcggcgagg ggaagaccgc gggcaggaag 240
aagggcagca aggccaagaa gggcgtggag acgtacaaga tctacatctt caaggtgctg 300
aagcaggtcc accccgacat cggcatctcc tccaaggcca tgtccatcat gaactccttc 360
atcaacgaca tcttcgagaa gctcgccggc gagtccgcca agctcgcgag gtacaacaag 420
aagcccacca tcacctcccg ggagatccag 450

<210> 5360
<211> 164
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074f02b1

<400> 5360

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aaggggggta acaaaccaca caaaacaaac aaacacacaa aaagaaaaaa aaacacccaa 120
acaaaaacaa ggcctcaacg aaaaccaatc cctaaataaa aacg 164

<210> 5361
<211> 245
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316074f03b1

<400> 5361

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ctgtccttaa angaaaagcg tgggttccac tactcgctan atacgttatg agacggacct 120
gtttaagggg ccgttccatt tctgaagcta acaaacttta agtcgttgat ttgcctgcga 180
tttgaagacg tcgtagctgc atctggtgtg ggtaatttca gggcatttgc ggctggtttt 240
attgc 245

<210> 5362
<211> 412
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074f04b1

<400> 5362

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gatgatcaaa cctgatggcg tccagagggg cctcatcggt gaggtcatca tccgcttcga 120
gaagaagggc ttctacctca aaggtctgaa gctccataac gtggagaagt cgatcttcga 180
gcaggactac accgatctgt cctccaagcc cttcttcgct gggctcgtgg agtacatctt 240
ctccggccct gtcgtcgcta ttgtctggga gggcaagagc gtcgtctcca ctggacgcac 300
gataattggc gccaccaacc ccttggcctt tgagcccggc accatccagg gtgacttttc 360
cgtctacatc tgcaggaacg tcatccatgg aagcgactca gttgagagtg cg 412

<210> 5363
<211> 240
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074f05b1

<400> 5363

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gagagataaa agagagagag aagctgtcat aatccaccta gtattatcat gttccgcaat 120

gactgattgt tgacctaagc ttgggtctga actctggtgt gctgctgtcc cagctgcttt 180
 gggtgtgtgc ccatctacta tgtaatcgtc ctctatcagc ctgttgtgct acaatatctt 240

<210> 5364
 <211> 514
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsro9316074f06b1

<400> 5364
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 ctcagggtcc acttcaagaa cacacgcgag acagcgtttg ctcttcgcag gatgcctttg 180
 ggcaaggcta agaggtacct tgaggatggt ctgccccaca agcaagcgat tcccttccgg 240
 agatactgca gaggtgtggg tcgtactgcg caagtaaaga accgccagcc aaatgggcag 300
 ggctcgctggc ctgcaaagtc agcccagttc gtgttggatt tgctgaagaa tgctgagagt 360
 aacgctgagg ttaaaggctt ggacgtcgac aacctctaca tttcacacat ncaggtgaac 420
 caagcccaaa agcagaggcg cegtacatac cgtgctcatg gacgcatcaa tccttacatg 480
 tccaaccctt gccacattga gctgatcttg tcag 514

<210> 5365
 <211> 74
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316074f09b1

<400> 5365
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 tgtcgctttg caat 74

<210> 5366
 <211> 469
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316074f10b1

<400> 5366

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aatactgcag cctttatgat gaggggtata catccattgg gagcatatat gatactgttc 180
caaatgcact tcttagtgat tcatctactg ggaacagctt tagaccggca tacatgctat 240
cagatggaag acttgaaata gctgggagag cgaataacac tagcaacaaa acggaaacta 300
attctgttgc aagcaatggc atgaacaatg ctgagggaga gcaaagtatc tcacgttcgg 360
cttcagttat tgtagttggt gatgaaatat tgtttggcac agctgaggat aaatttggcg 420
cagccttggt caagaagctt catgaaattg gcgtgcgagt ttctcatgt 469

<210> 5367

<211> 390

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316074g01b1

<400> 5367

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tcgatggcct cgtcgttga gaacacggga agctcttctt cggaggagt ccagatcgac 180
gacagcttct ggtcggagac actggcgatg tcggcggaca gctccggttc cgggatggaa 240
tccagcgaca cttcggcgt agatagtga gcaccgtctt cgagcaacga tgagatggac 300
ttctgggtca cactgttcat gcaagctagt gacatacaga gtttgtcaca gatttaactt 360
ttaatgagaa gattgggcta ttttcgttct 390

<210> 5368

<211> 133

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074g02b1

<400> 5368

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cggttctctt gtgcggacgc atgggcagac tcatgggagg gcgcgtttta aaaaaaaaaa 60
 gggtttcaaa caacaaaaaa aaaaaaaaaa acccaaaact aacaaaacaa aacaacacca 120
 cccccaaaaa cgg 133

<210> 5369
 <211> 391
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316074g03b1
 <400> 5369

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 gttggtgtac tacaaccgag ccagatatag tacactotca tgacttatat taccagctgg 120
 attaaataag tggcgtgttg taccaccac catcaagtca ttccatgcta tataatgtca 180
 agatcaatca agattagggg atgatgccc tgtaaattct gtggttggtc tgacttactt 240
 ttctagcttc tatggaggat aagtatgtgt gtgctgggtg tactatgatt gtgtaatgat 300
 atatattaaa atttctactt tgtaccttc aaaaataaat attgaccgac aaagattttt 360
 cgggtttgcc ccgccgtaaa aaaatatggt g 391

<210> 5370
 <211> 410
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316074g04b1
 <400> 5370

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 gtccgtccct tcgaggatct ggcgaacttt tatcttttta acgttggaag gcaataattt 180
 ctgtagaggg tggattttcc caacattcgt tcttggtgga ggcatcgaac tccagagggt 240
 gtcgtaggtt ggccgcagcg ttctcaaac atttactatc atagggggtg agtttgagtc 300
 cgagtatgtg cctgaatcg ttactgggca attttcctta aatacattgt cctcgaatcc 360
 gactgagatt attatggtcc aagtttnaaa aaaaaaaaaa aaatagaaaa 410

<210> 5371
 <211> 489
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316074g05b1

 <400> 5371

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acatcgatct cggcatgaag tacgatccat ctaccggcat ctacgggatg gacttctttg  180
tggtgctcga gcgtgctggg taccgctct cccgccgccg caggtgcaag gcccgcgtcg  240
gtatccacca gagggtcacc aaggaggacg ccatgaagtg gttccaggtc aagtacgagg  300
gtgtcatcct caacaagtcc catgcgagct aagaaggacg tagctctctt tagaccttga  360
gttaatgaag ttcacctggt tgctggatat gtatgttacc tagaaaccga aatgctttgt  420
cagttttgcc tgtactcaag ctggatgatt tctgtttgat ctgcactttc gtctaagagg  480
ctcactact                                     489
  
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<210> 5372
 <211> 166
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316074g06b1

 <400> 5372

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ctgcttgagt agttgggaac atgaatgtaa aacttttgta ttcaccttct agacagtgct  120
ttgtgacggt tgactgtaca attgtatata gacctgtctt cgtatc                   166
  
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<210> 5373
 <211> 400
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316074g07b1

<400> 5373

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cgctgtgctg ggcggacgac aagcggcgcg cgccggcggc gtcagtgggtg ctcaagggtgc 180
aggacagctc cncggccgag gcgtacgagc agtacctgag gctgccggag ctgtccangc 240
tgtggaaggc cgcgtgctgc cggggctggc ccgacgaggg cctgggtcaag cccgcgctgc 300
aggcgctgga gatcaccttc cgattcgtct ccgtcgcgct ctccgacca cggggctacg 360
ccagccaacc cgagctcgcg cggcggctcg agtcgctcgc 400

<210> 5374

<211> 581

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316074g09b1

<400> 5374

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gggggcccgt ggtggtcgag acggtgctgt tcgtgctgct gacgccgggg ctgctcttcc 180
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tcctcgtcca cgccgtcatc tacttcgcc tcataccat ctctctcatc gccatcgggg 300
tccacatcta cgccggetag acccccccca ctcttcttcg ccgcacatcg cttctcggct 360
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tngtgatgta ctgtgtgtgt agtagcttct gttgtcttct ttggttgatc ggagaaacaa 480
tcggaagcta gtagtatatg gtttggtggc cggctggggg ttcgtttgag atggctcttg 540
tctctgggat gaaattttat ccagaatggg ccggtgtgtg c 581

<210> 5375

<211> 343

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074g10b1

<400> 5375

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gagctgtgta actgtgatta ttacaattta cccttctttt gatgattatt gactattgct 180
ggatggtcag cggttggcat cttatgtaca atttatacag cggttatgtg tcctttcccc 240
ttgtttcaaa agggacacca aagaggacgc catgaagtgg atccagggtca agtacgaggg 300
tgtcatcctc aacaagtacc atgcgagcta agaaggacgt agc 343

<210> 5376

<211> 393

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074g11b1

<400> 5376

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cgatttgccg tttctcggtc ttggcgccac ctgagccgag acattagtta attagcagac 180
gctaattgtc tcccccttgt ttgacagtg acaccaatgt attccctaatt tatgctgggtg 240
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aagctcagtc tgtttaagaa caatgcaagc taaaaaagaa cgtaactata tttaaacctt 360
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<210> 5377

<211> 108

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074g12b1

<400> 5377

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ttaacaaacc aaaaaaaaaa aaaaaaaca caaaaaaaaa aaaacaac 108

<210> 5378
 <211> 98
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316074h03b1

<400> 5378

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 ggggttaaaaa ccacaaaaac aaccaaaaaa caaaccaa 98

<210> 5379
 <211> 544
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsro9316074h04b1

<400> 5379

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 ccgaccgcgg cctcttcagc aagagcagca aggacgacgg cgccgacaag aagaagaagc 180
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 tcgacagcga ccgccgaag ctcgtcgcgg ngctcatccc ggacgcccgc accatccgcg 480
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 ccta 544

<210> 5380
 <211> 523
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
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tgggtcttga tctgacaaaa ggtgtaatcc gcaacaacct gaaacatgcg tcatcgagcc 480
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<210> 5381

<211> 369

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074h06b1

<400> 5381

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<210> 5382

<211> 412

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316074h07b1

<400> 5382

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 agcatgcttg ccgtgccttc tatccggtgc accggaggct ggcatgtgag cagggatgct 180
 tcaatgatgc agaagaaaaa aggcaagtct tatcggcaag ggaagggtag gcctttcttc 240
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 caccggttta ctgcgtcctt gtgagttgtg atcattatca tgcactcttc agttgcttgt 360
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<210> 5383
 <211> 329
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316074h08b1
 <400> 5383

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 gtggccagcg cgtgcggngg aaactgcccg acccgtcca cgcccacccc atcgacgccc 180
 accccgaccc cagcctcgct ccgcaggtgc ccacgcgacg cgctgaaggt gggcgcatgt 240
 gtcaacgcgc tgaacctggt caaggcgag gtgggcaggc cgaccgcgtt gccgtgctgc 300
 ccgctgctgg atgggctcgt cgacctgga 329

<210> 5384
 <211> 358
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316074h10b1
 <400> 5384

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 gcacgtcgac cattccagga agtccgcgga gcaggctgtg aaggcaatca aggggaaaga 180

ggcgggggtct gccgtggagg agtacgacta cctggcctac ttctactcgc ggtcgatcga 240
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ccccagctcg gacaagccca agttctggtc gtactgggtc aaggactgca agttgcgt 358

<210> 5385
<211> 482
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074h11b1

<400> 5385

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caccaaggcg gcctgggcgc tcccgctccg cccctacggc ttctggacct tcgaccgctt 120
caactcccag ctctcctggg acccccagat cagccaggcc gccggccgcc gcgacccta 180
cgacgacctc ctgcgccgcc acgcgggcc cgccccgcc tctctctctt gagaaccgaa 240
tccggcatca accgcgagga agtgtggtt ccccgatct acgcgggcag caataaggaa 300
ctcatttccc tcaaatgac tgtgattgca ttcccttctg gttcattttt atccttgaac 360
tgccccagtt ggttcattct ctgagtgggt actttgaaa acttcctgtt cggcaagata 420
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tc 482

<210> 5386
<211> 550
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074h12b1

<400> 5386

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ttcaacatat acaataagaa ggtgctgaat gcgttcccg acccgtggct cagctcgacc 120
ttgtccctgg cagccggctc cgccatcatg ctctgtctct gggccaccag gatcgccgag 180
gcgccccaga cggacctcga tttctggaag gctctctctc cgggtggcgat tgcgcacacg 240
atcgggcacg tggcggcgac ggtgagcatg gcgaaggtag ccgtgtcgtt cagcgcacac 300

atcaagagcg cggagccggc gttcagcggtt ttcgtctcaa ggttcttcct cggcgagcac 360
 ttcccgttgc cgggtctactt ctccctcctc ccgatcatag gtggatgcgc tctcgcgggc 420
 gtcaccgagc tcaatttcaa catgattgga ttcattggggg cgatgatctc caacctggcg 480
 ttcgtgttcc ggaacatatt ctccaagagg ggatgaaggg caagtcgtga gcgggatgac 540
 tactatgcct 550

<210> 5387
 <211> 383
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316075a02b1
 <400> 5387

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 gttcacaaga gggctacccc ttcgtatcgt catgattggt actcttaccg gtgctcagtg 120
 gggaatctat gacgcgttca aggtcatggt tggactcccg accaccggcg gtgctccacc 180
 agttgctccg gtggaggaag cagcgaaagc cagcgcttga ttgatttttc ctactacgac 240
 gatgacgatg tattccggga tgatgtggta ttgggtggatg gggactgtat caattacttg 300
 agtttagcaa ccgaaatcat ttgttattgt agcagatggt tattgtgtca tcattttgat 360
 gagaggaact cattaagcag gcg 383

<210> 5388
 <211> 352
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316075a03b1
 <400> 5388

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 catgggggttc cccctgggtgt gctactgcgt tgccatcccc aagccgggtca tgcactcttg 120
 caagctcgtc gccgccgtca gggacgcctt cctcctgctg ctctccctcg tgggctcttg 180
 ccgctccccg cgcgcgtccg tggacgacgc cccgctgccc gaggaggtca aggagcgcc 240
 cccggccgtc gagttctcct tgctggcgcg tacggcaaag catgggtgcc acgactggga 300

ctacgacgtc gccgccgcgg cggtcacgtg catcgtgtgc ctggagaggc tg 352

<210> 5389
<211> 504
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316075a04b1

<400> 5389

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gattatcaag cctgatggcg tccagagggg cctgatcggc gaggtcatca tccgcttcga 120
gaagaagggc ttctacctca aagggtgcga gctccagaac gtggagacgt agttcgccga 180
gcagcactac gccgatctgt cctccaagcc cttcttagct gggctcgtgg agtacatcgt 240
ctccggccct gtcgtcgcta tgggtctggga gggcaagagc gtcgtctcca ctggacgcaa 300
gataattggc gccaccaacc ccctggcctc tgagcccggc accatccgtg gtgactttgc 360
cgcctacatc ggcaggaacg tcatccatgg aagcgactta nttgagagtg cgaggaagga 420
gatcgccctg tgggtccctg agggcattgc agagtggagg agcagccagc acacttgatc 480
tatgaggcct aagatgtgtc atga 504

<210> 5390
<211> 280
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075a06b1

<400> 5390

gatccccacg cacagggcga acccaatacc cggtttgacc cacacctaca atctgcccgtc 60
tccactaaag atactgcccg taatgatatg atactatagt caacacctta tgcttctaaa 120
catctgaccc tgcataaatt gttaggcaca cacaggcaat accactgcac atggatcacc 180
ttgccaatat ttctacaga atcgaagctg agtgtctcga acattccttc ttacgttagc 240
atgtatagca acttatcccc tagcaactat tttgcaaaac 280

<210> 5391
<211> 225

<212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316075a09b1
 <400> 5391
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 gattggcatc cttcatacag tactgtcagg cagatcacca agccaagaaa cggaccaaca 120
 gcttgctaata cggcgccgat actgggtcatg ggcgccgtga ggggtcatcaa ggcgcccggc 180
 ggacagaatc ccaggctggc aatccacgct ccggggagggg gggcc 225

<210> 5392
 <211> 261
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316075a10b1
 <400> 5392
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 atctttgcca tacagcactt cgaggatggc cgcaccctcg cggaatacaa catccagaag 120
 gagatcacc tccactcggg gctcaggctc cgtgggggca tgcaaataatc tgtgaagacc 180
 ctcaccgaga atagcattac actctaggtg gagggcatctc acaccatcca caacgctaata 240
 gcgaagatcc aatacaagga g 261

<210> 5393
 <211> 508
 <212> DNA
 <213> *Triticum aestivum*
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316075b05b1
 <400> 5393
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 ttctaagcaa atgctagcaa aagatgggca acctcagact agcctgaagc gcaagtgcgt 120
 cacttcctcc ttaccaaatt ataatgagca gaatgcaaata gatgaggaaa agagtcatca 180
 agttctagag cctctcaaca agaagagggt accagagaaa ggggaagtgg agcaagatga 240

cagtaagggtc aaactcgcca acggtgaaag caatcggtaa atactcgttt ttcttgtgat 300
tctcggtttt atactagtct tgtattctga tgggtgttcta tttgggtcac cttgccttga 360
aggcctgccc agcagtcgat gaacgacatg ctctcaaga tccgtgccgt gaaggatagt 420
ttgagggaca aacctggcaa gtttgaggag tcgatgataa acgccgcgat cctctacgtn 480
catgccgtga aggatagctt cagggaca 508

<210> 5394
<211> 451
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075b07b1

<400> 5394

tttcgtttac gcgtccggct ttatccaaac aagcaatcag tatcactatt ggcgggtgta 60
tctccccaat ttccacctat ggtggcacac actatgacat cgatatttta gtttgcgaagg 120
accgagcggg gggcaattgg tggctgcaag tgggaggtga ttatgtgggg tattggccat 180
catccatctt atcctacttg gaagatagtg cttctaccat catgtggggc ggtgaggtat 240
tttcacccga tgccggacaa acttccacac atatgggtag tggacacttc cccaatgaag 300
ggttcggcaa ggcgagtcac atcaagaaca ttcaagtggg agattcgacc aactgtctca 360
atcccccaag taatgcgggc ttgataaccg agcagaacaa ctattataat gtgcaaagtg 420
acacctatgg cgactggagc acttacatct a 451

<210> 5395
<211> 247
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075b08b1

<400> 5395

ttcgatctgc actactcacg gtaagagcca catccaccac aagtgagtga ccatcggagc 60
aaggaaagac caggagagat ggcaatgagg ccgcttgctg tcttggccct ggccgtggcg 120
ctcgccggcg tggcactggg agggggcgcg actgaagggg ccggctagtg cggtaggtcc 180
tccaccgacc ggatggccct gcgcattggc ccgtgcatat cggctgcgga cgagcggac 240

tcggctc

247

<210> 5396
<211> 247
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075b09b1

<400> 5396

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gttttcta gcccgcgtgt agggatcgac aggaagatgg gacacatcct gctcctgtgc 120
gcatttctac tcggcctgat caatgaggac agcctcacgg aggtaaccga atggatgggc 180
cgatgcacat cacaccgggg atgaaacccc agcccgcgcg gcctcagaac tggcacctgg 240
gtggcgt 247

<210> 5397
<211> 302
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075b10b1

<400> 5397

tttcgattat ccccgatacc aaagcccatc ttcttgtggt tgaaatcttt ttgggttcac 60
agatttggag gatgtcttgc aactgtggat ccggttgacg ctgcggctca gactgc:agt 120
gcgggaagat gtacctgat ctgacagagc agggcagcgc cgccgcccag gtcgccgccg 180
tggtcgtgct cggcgtggct cctgagaaca aggcggggca gttcgagggtg gccgacgggc 240
agtccggcga gggctgcagc tgcagcgaca actgcaagtg caaccctgc aactgt:taag 300
ct 302

<210> 5398
<211> 70
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075b11b1

<400> 5398

gtttagcagtc catcaaacag gcgatgagga atggacttct acatgcattc gacgtgaaca 60
acctacacgt 70

<210> 5399
<211> 340
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075b12b1

<400> 5399

tttctcttga aaggggggatc cctgctgggc ttggtgtttt gggaacaaaa agggttccat 60
accccagtag atcggttcgaa ttagccctact gttctcggtg caggattgat tggcttcaga 120
gagatggaat tcttatgctt gaactggaca gattactcag gcctggaggt tattttgctt 180
attcatctcc tgaggcatac gcacaggatg aggaggaccg tagaatctgg aaagaaatga 240
gttcccttgc agaaaggatg tgctggaaaa ttgcagagaa aaaaaaccag acagttattt 300
tggttcaagc ctctgaacaa tgattgctac aggagccggc 340

<210> 5400
<211> 424
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075c01b1

<400> 5400

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gttccgggggt ctctggtgtg ggagctcgtg aagaaaaaca actgcttctt gatcaagcag 120
ttcggcaaca gcaacgcaa ggtgcagttc agcaaggagc caaacaacct ctacaatgtc 180
cactectaca agttctctgg cttggcgaac agcaagaccg tggcggtcca gccatcagcg 240
ggagaggaca aggtgtcgt cctgtccacg accaagacca agaagcagaa caccctgcc 300
aagctccagc acaagactct gatgcgcaag gagttccgca agatggccaa gtccgtcaag 360
aaccaggctc gcgacaacta ctacaggcct gatctgacca agccggccct tgcaaggctg 420
agtg 424

<210> 5401

<211> 557
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316075c02b1

<400> 5401

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caaggagtgc ttgcgctggg gctgttgccc actcgagggt gctacctgct gcgatgatca 120
ctacagctgc tgccctcata actatcccat ctgcaacacc cagcagggaa cctgccttgc 180
ggccaaggac agtccactgt cagtgaaggc tcagaggcgt accctggcca agcctatcgg 240
tgctttctct gtcattgcaa ctgacggcaa gaaaagtagc gcgtaaacad ttgcatcacc 300
acaatcctac agccaacggc catgggtggtt aacttctgca aatgatcacc tggtgacca 360
cgatagaagg cgcagcatgg caatagctgt gctctcaagt atcttcttta tagtagatgc 420
tnctgtacat aatccctaaa tcgggttcgg gtggtcacag accgncacan ttgcttttgc 480
atatgtatat gtaaattcag cacattccaa gcagtttggg gctgctatct gtatatggaa 540
ttcatcaaga acaagat 557

<210> 5402
<211> 471
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316075c03b1

<400> 5402

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aaggcatcga tcgcgctgtt cctcgccgtg aacctggtcg tcttctccgt ggccagcgcg 120
tgcgggggaa actgcccagc cccgtcgagc cccaccccat cgacgcccac cccgaacccg 180
ggctcgctcg gcaggtgccc acgcgacgcg ctgaagggtg gcgcgtgcgt caacgcgctg 240
aacctggtca aggtccagggt gggcaggccg accgcgttgc cgtgctgccc gctggtggat 300
gggctcgctg acgtcgaggc ggccctgtgc ctctgcacgg tgatcaatgc cagcgtcctc 360
agcatcgctc agctcaacct ccccatcaac ctcagcctca tcctcaacca ctgcggcaag 420

aaagcngccc accggtttat gtgctaagcg atctagcaag gtgtgacatg c

471

<210> 5403

<211> 507

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316075c05b1

<400> 5403

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ccggatccga agctcagtc cgtggccacg cagattatct ccggaaaatc atagtgcagg 120

gtcgatcctc caagtcaacc aaagttgtag atatcatgac cgaagagaac aagctgatca 180

cggtgaaacc tgaaaccaga gtcctgaaag caatgcagct gatgacagac aagcgtatca 240

ggcacatccc ggagatcagc ggcaccgaga tgatggggat ggtctccatc ggcgacgtgg 300

tgcgcgcggt ggtcagcgag cacaaggagg agctgaaccg gctcaacgcc tacatccagg 360

gtgggtacta ggaccccgcc gttttgcagg gcgtcccttt gagtgaactc tacaataacg 420

accagngtga tgatgacgaa ataggccgtg tttcttcgcg gacaatggcc gttgaaactng 480

aatntgcgtg tgtgatgttt tcttgct 507

<210> 5404

<211> 186

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075c06b1

<400> 5404

acgcttacgc ttccgatgtg gtgtgctgat ctccggaga aggggaacca tgcactcttt 60

gtggatttct caacttacag catggttact ctatccaaaa aacacacaaa atctaaaaag 120

cataaaagaa aaaaaaaaaa aaaaaaaaaa acaaaaaaac aaaaaaaaaa aaaaaaaaaac 180

aaaagc 186

<210> 5405

<211> 389

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075c07b1

<400> 5405

tttaattgct ctgcaaatc gttggcataa aggcagaggg agaagcacgg gcacaaagga 60
aggcccaggt gcgccgagtt cagaatcttg ttgagacctt tgacaagctg aaggcaagga 120
atgccaaccc ttctcagtga tagcgccaaa tctgtttcgg tgtctaccga gtgggagacg 180
tttgaaaact gtgtgggcag cttgaatgct ccaccggggc gattttcttc tgacgcacaaa 240
tgacactgac tgggagcagt tcgactagca tgagaatgag cattctcgat gtattattat 300
gtaactcgcg accaatgcta ctgagtacat gtatgaagaa tgggtgcctct tgccactaca 360
ctgcctgtga gattgtcgcc agatgatgc 389

<210> 5406

<211> 424

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075c08b1

<400> 5406

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gcggtgcata tctgagtatc tgacgaccgc ccgccgccgg cgatgggctg ctggtgggag 120
cgctctgtgc tgccggtgcg aagggcgtgg ctcggcgctcg cctcccgtt cggtgtgcgc 180
cagtccggtg aggcgcgccg ccgctagctc accgttcagc cacatgctgc agaggcttcc 240
ctcgtcggtc cacctagtcc tgggctgact ccggcgctgc tggttgcttt ttggttgca 300
gggctgtgga ggctccggca ggaggtgagc acgtgcgagt acgaggacgt gcgcgtgatg 360
tgggagatgc tgagccgacc gcgtcggcgc cgccggcgcc ggcgaccagg cgccacagca 420
ggtt 424

<210> 5407

<211> 268

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075c10b1

<400> 5407

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caaaacacaa accaaaaaac acacaaacaa caggcggcag cccagcccgc cgggcccac 120
ctcccaggca gcccagagctg cagaccccag gccccagac cgcgcccgga ccaccgcggg 180
gcccgaacc agaccctaa atgcaatgca cccgcccaca gacaaccca tcacgcacgt 240
cccagccctc cccggcccca ccttgatg 268

<210> 5408
<211> 298
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075d01b1

<400> 5408

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gaggtgtaca tatgattcct gtaatttggt ttttttttcg gtggcgagtt ttctttcttc 180
tgccctgct cgcgatattt aagagcagg atgggcagta cataatgcaa aattgtacat 240
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaat aaataaaa 298

<210> 5409
<211> 241
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075d03b1

<400> 5409

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tgtgcttgcc taagcgaata tcaacaagta ttttatcttt ctagtcttgt cttgaacaga 120
aatcatggga gcaatggaac tgcattttct gtttaaaaaa aaaaaaacag aataaaaaag 180
ggaaggatga aaaaaaacia aaacagaagg ataagagcgc tgaacaacia caatataaaa 240
a 241

<210> 5410
<211> 462

<212> DNA
 <213> *Triticum aestivum*

 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316075d05b1

 <400> 5410

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 ggcggggcga acgatcaacc cggtagagcg cgcggtgggg ctgctctggg cggaagctg 120
 gcacctgtgc gagggggcgg tccagaccgt gctccggggc ggcgccatcc gcccgtgccc 180
 ggagctcgcg ggcggcgctc cggaaggcgg agtcggtgga agcgatctgt tcgcctcctc 240
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 gaagacatgg gcgccggagg cagcgtccca ccaccaggag cctcgtgcg acctgnggct 360
 tttcctcacc cccggatcgg ccgcgggcggc agagggggag cgactggcga ggcggggccc 420
 cagccgctcg atgagctccg acggctccgt gaccactagc gc 462

<210> 5411
 <211> 421
 <212> DNA
 <213> *Triticum aestivum*

 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316075d06b1

 <400> 5411

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 agcaggagat gcattccatc agatactgaa cgggctcgct cgcaagcttc cgcattggcga 120
 agatgtcttc ttgaagcccg gccagggtccg tctgaactgg accgctggcc cgggtgggtga 180
 cctgaagccg tggtagcatc tctcgcatcg cggtttggag atgtataaaa acctttttga 240
 aaataaacat tttcagacct gatatacttt gcgcctttat accaccatgg ttgcacagt 300
 ctgaccataa gtcaaagtga catctttttc atcttctttg ctgatagctt gtncaaaaaa 360
 aacaaaaaag acaattacca caaatataaa aaaaaaaaaa aaagacaaac caaaataaat 420
 a 421

<210> 5412
 <211> 201

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316075d07b1
 <400> 5412
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 aaatttcgag ggtatgtgca tgtgtcgtac ggatgtgatt atttgaata atacgatttt 120
 aatgaaaaaa aaagaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaat aaaaaataaa a 201

<210> 5413
 <211> 484
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316075d08b1
 <400> 5413
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 tctccggttc agaggccggc gaggtgggcg tgtgctacgg gatgatgggc gacaacctgc 120
 cgcagccgcc ggcggtggtg cagctgctga agcagcacgg catcacgatg gtgaggctgt 180
 acgacgccga cgccggaggg ctgcgcgcgc tggccaacac cggcatcaag gtggaggggtg 240
 tccctgcccc acgacaacat accggacgcg gcgagcagca tgtcgtacgc ggtgcggtgg 300
 gtgcagagca acgtgcaggc gtacccgggc acgtggatcg acagcgtggc cgtcgcgaac 360
 gaggtgttcc accaggcgcc atggctgacc caccagctcc tcccggccat gaagaaatc 420
 caggcggcgc tggccggggc ccgcctgggc gacgcggtga aggtggtgac gccgatcgcg 480
 ctgg 484

<210> 5414
 <211> 455
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316075d09b1
 <400> 5414
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gtggcgggcg agcctatccc ggaacgtgaa ggagatccgc ttcctcttgt gccagtcttc 120
ccctgccagc ggccccgccc gggagttcgt gaagaagaac tacagtgaca tcaagacccg 180
cataccccac cctccccgtc ctcattccgc agtgctcccg cgtccagcct cagctctggg 240
cgcgctgcca tatgtgcgtg gagaggcacg tgcgcttggg cgggttgaca gaagcccgaga 300
tcgacaagaa gctggaggag ctagccaagg caggagctgc gaaaagctaa aaactgtcag 360
gctagccaag ttattctcgc ttaaagcttc acaaataaca gaacagttct catgagtgta 420
tacgttatct tgatttcagt accatgactg cactc 455

<210> 5415
<211> 392
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: uC-tsro9316075d10b1
<400> 5415

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aaccgcggcg cctccaccaa catattccat ttgaccctgg tcattaccgc tacagtttgt 180
tggttgatga tgtgggcaat cgtgtacctc gccagatga agcctttgat caaccctatc 240
ctgagcggcg agtgagcccc gatctgcccc gaagacaact taagatccac tggtgatgta 300
tcattattcg gttgagaacc tctattcatt ttgttgccat aactgaaata aacnagaaaa 360
aatccccctt tcatagccgg caaaaaacaa tg 392

<210> 5416
<211> 458
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: uC-tsro9316075d11b1
<400> 5416

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agctcacctt ctggaaccac ctcactcttcg gcgtgccctc caccctcatc gtcaccggcg 180
tcggcatccc cctcatcgga aagatgtagc caccctatcc atctaccaac atcgccctcg 240
ccaccgtcga ccgacgatcc aactatatgc aatatacact ttccttatat ataccagcag 300
cctgtacata tgtacgtgca tacacaagcg catatacggg cactntgtac gtacgtacgt 360
ataggtcata gcctccgttt tcgtatgtgt gttaattgct gtgtgcgttg ctgattaatt 420
agtatatgta tgtatgtaat ggtgagacga gacggaga 458

<210> 5417
<211> 70
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316075e01b1
<400> 5417

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agaaaaaccc 70

<210> 5418
<211> 459
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316075e02b1
<400> 5418

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tggtctaccg tacagataac actgcatgag cttcaagccc cagagccagt ctcccacaca 180
ctggagaacg acaagagcag ctaccgagag ctctctgaga tcgatgagca ggcacagaga 240
cctagctgtg atggccaggc tgctggaggt aaacacactc aatggccacg tttaatccga 300
gggtggagctc aagggggccc acatcaacac catgaaacca gagctacacc cagtgaggaa 360
atgggacatt gaaccaacaa acatgacata cgtgtcggag ctagaccgga atggcactcc 420
gcgtgaagat tgttgcgggc aatgaaagaa acaaacatg 459

<210> 5419
 <211> 275
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316075e04b1

 <400> 5419

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 tcgagaggca ggactatgca ttctgatata gagcgtgcgc taactgctag gtgggaccat 180
 ctccggcaaa gcactacact gaagctacta caggtgcttc gacagctctc tatacatact 240
 cagcatetta tggttacctc tgacctactg caggt 275

<210> 5420
 <211> 179
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316075e05b1

 <400> 5420

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<210> 5421
 <211> 505
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316075e07b1

 <400> 5421

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 gtcaattccg ttctccgagg aagagctcga gtacataagc aaacttgatc cgatgaggga 180
 tgctgcaatg ctgcggggag aactgcccac gatacgggag gcttgccctc gagtccttat 240
 cctgtgcaca atcttctca aggaagctgc tgctttcggg ctttgcttgg cagagatagg 300

ggagatgatg accaggggaat tcagaggaat ggaggaggaa cccagcaaac tggaggttgt 360
 gtgcatggaa gccaggagga aagtagacga atgggaaccc ttctccccta gtgttgaaga 420
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<210> 5422
 <211> 532
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316075e08b1

<400> 5422

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 tgttcttggg tataaggacg atggaattga agtacaatgg gctagtgggtg tgatatccaa 180
 ggcgcagcat tttgaaataa ttggattaga aagacttcta gatagtccac taggatctgt 240
 gaatgaggtg catacttctg tcgacgacga ggctgagcag gaaacaattc gccatgagag 300
 tactaagaat gccctggaag agtctgggtga agactgcact ggttcattgc gcaatgcttt 360
 ctacttctcc aaaacagctt ttaattttct gacgaatgtg gcttctagtt tctctgggtgc 420
 tcatgattct acatcatcta gctcaattac tgcagttcct cagtatcaaa ttgtgaagtc 480
 agcagatcta cattcgtctg cagaagaaat ttcgttgtgg agttgggtgat gc 532

<210> 5423
 <211> 555
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316075e11b1

<400> 5423

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 ctgatggaga acaacaggag caaccagcag gctcctccac caccgccagg gtacccgacg 120
 gcggctgcgg agcaggacca ggtcggcggg aagaaggggc gccgggag gagcacatcc 180
 aggggagcaga agggcttcat cgagggatgc ctgcgccgac tgtgctgctg ctggatctgc 240

gagatgtgct gcgactaacc ggccggccgg cgagggcgct gctggctggc acaagacctc 300
 ggtgctatag taccacgag gaggaggagc gtatgcgtat acagagagag aattgttctt 360
 aatttcagtg cccgttggtt taggttctat acagtatata ctctaagtt gatgcatgca 420
 tgatcagtac cagtgtgaga tatcgattca tgtatccgtg ttgggtgca tattcatgca 480
 cctcgtcgtg tgtaattaat cgggtgtgtac gagaccacg aatatactta caagtactgt 540
 ctactgtgat tgagt 555

<210> 5424
 <211> 205
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316075f01b1

<400> 5424

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 tggttgtgca ctccgaacaa aattatcaaa aaaataatcg ccaaaaaaaaa aacaactgaa 120
 gacaagtacg atgaaaagca ccaagaaaat atactggaaa gaattaactg agacaaacga 180
 tggatttaac gtaaaaaaca ataac 205

<210> 5425
 <211> 457
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316075f02b1

<400> 5425

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 aagatggaac acaaggaggc gggttgccag cagccggagg gcccaatcct atgcgttaat 180
 aactgtggct tctttggcag tgcggcgacc atgaacatgt gctccaagtg ccacaaggag 240
 atgggtcatga agcaggaaca ggccaagctg gctgcctcct ccttcgatag catcgtcaac 300
 ggtggcgacg gtgggaaagc acctgttggt gcggctgtag ccgcgagcgc agaggtgggt 360
 gttgctcaag ttgacgtgaa ggcgctcggt gtgcaaactg ctgctgatgt tgcaagcacc 420

agcgaagctg ttgccgtgag ccccaagagg aggaggg

457

<210> 5426

<211> 438

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075f03b1

<400> 5426

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gcttattggt ggccacgtca cagcagaacc agagcttcca gtccaaggag tcattgtccg 120

agcagcaacg gagctcgag tccacgatgc tgccgttaca acaccaccag gacttgccggc 180

aacatcagca gcagctgagg ctccagttga gggaggagtt gtgcgcatcag gaacagaact 240

cgcagtccgc ggtgcatcgc cgcagcagcg ccggtgcttg aggcggcaac acccagattc 300

tcagcccgcg aacttacatc agcaccagag ttcgcagccc gcaactatcac cgtggcagca 360

gcacaagagc tctcagccag cgatgtcgct gtctcagcgg caccagagct tgcagagctc 420

gcagtatgtg ctaccacc 438

<210> 5427

<211> 217

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075f06b1

<400> 5427

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ggttattcac gtgctggtga cctaacagtt gtacagcatc aagggcacgg ccgaaatcga 120

gaacctcgga gagctggaca gctggctcga gatccgtcct tgcgctatgt tgctcaaagt 180

cgtaacctgg cactccgaca ggggcttacg caactag 217

<210> 5428

<211> 402

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075f07b1

<400> 5428

gtctaacaca gcaaatcata ctagacagtg tattttttcca cataatatat ctggtccgga 60
ctgtaattgg gcgtcttgca actgcagatc aggctgcaag aatgcagatc aaactgcaag 120
agcggacaga tgtaccctga tctgacagag cagggcagcg ccaacgacta ggtcgacaac 180
gaggtcgtcc tcggcatggc gcctgggatc aaggtttgac agaaccaggt gtccgcgagg 240
cagttcggcg aggactgcat ctgctgtgac aactgcaagt gcaacccttg cgactgttaa 300
tgcaacatgc actcaaacgg aaaaccgtgt gatgggtccag agagtatacg tgaataacga 360
gcgtctgatac tgatggagtc gagcaagtgt gagagggcct gt 402

<210> 5429

<211> 484

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075f08b1

<400> 5429

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ccgcccgtgt agtacaatag gaggtacgat gcccatcttc gtgaagacac tattaggaaa 120
gaccacact cttgaggttg ggagcttgga caccatcgag agtgtcaagg tgaagatcta 180
tgagaaggag ggactcggc cgatacagca gcgcctcatc tttgctggca agcagctgga 240
ggacggggcg acgctggcag actacaacat tcagagggag tctacccttc atttgggtgct 300
ctgcctttgt ggttgctgag atgcatggc attcaacaac cagttttatt ttgctgcagt 360
cctccttgca gtagttgtgt gttgccaata aaactatcat tctagtacta ctctgaatta 420
agaatccctg gctctgcctt ggcatcattt gattgagaaa tacagcgagg gtgcagcttc 480
tttc 484

<210> 5430

<211> 58

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075f10b1

<400> 5430

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<210> 5431
<211> 296
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075f11b1

<400> 5431

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agccgacgac aggacaccct agacaacaat caagtgactg ccgaaaagac aacaccatga 180

ctggcatggc aagtgtgtca caaatgctag cctgcccgcc acacatcaaa gccggcacca 240

gcgcagcgcg gtcgccaaga gagggccgcac agcagcgacc tgaccaacag tggcat 296

<210> 5432
<211> 507
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075f12b1

<400> 5432

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ggtagtcatg gagagcgtgt cagaaatgct tgctgggggtt atctttgtca aagtgtatca 180

ctggaactac gagaggtgct tccaaaactt tcttcacaaa ctttgcattgc tctccttacg 240

tctgacgaac tgtgggtacc taatgaggag aaacggtttg aactagcatt atttgcacta 300

ctggcaaagg tcaactgttc tgatgtagaa gttggtggaa acgaaaattt ggaccttatg 360

gcaagctcat caactgttga ttgttccatg ggaaagggaa agagtctgat gaatgaaact 420

gctgagaagc agctaattga atctgaacta caagagttga agttgcatga taacatgcag 480

aataaagctg ccaatacatt attgatg 507

<210> 5433
<211> 534

<212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316075g01b1

<400> 5433

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gagggcaggt ggacgaggag gccgccgcga cagcgatgga cgccgtggac ggagtgtctc 180
ggtggttggg gccaatggcg catgacacgc tgcggtggca ggacgagagg agcatggagc 240
ggaagcaacg gttcagcatg cagccgcgcg cgccgatggt gcagacgctg catttcgcgg 300
accgtcggaa ggcggacgct gccatcgtcg aggtgtctgt tgggtctcagc agtatgtgct 360
ggtacgacga tcaacggtgg cgcccggtcg actggaacga gtagccggcc tgggtcaacga 420
cgatgcgcag ctcatcatgt gtaaagtgtg agatactgta tacgtgtagg aaagtcattt 480
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<210> 5434
 <211> 513
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316075g02b1

<400> 5434

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agcgcgacgg catcgacaag ctggtgaaga cgtaccagta cgtgtcgaag ctggcgicact 180
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ggcgggtccc gggggagtgc ggcgcgctgg ccgtgctggc caacgcgggc gagatggtct 360
acttcttctt cgaccacttc acgtggctgt cccgcgtggg cgtgctggag ccttggtctg 420
cgcgcgcgcg cagcttcgtg tcggcgcttc gcgagtgcgt cggctacgtc ttcttcacgc 480
tcatggactt catcatgatc aggcgcggga tca 513
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<210> 5435
 <211> 373
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316075g03b1

<400> 5435

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 ccaaagccaa acaggaagta tacgttactg agcacaggag gacacactga gggaaagact 180
 gtgacaatga gctaggagca agtcatgaca gaggcctcat gtgacagccg agcactcaag 240
 gcaagagaac ggacgcggac ggatcgtcag tggctcgtggt gccgagtcaa actccatggc 300
 atgaacaagt cacaggtgca gctgagtcca cctcccatga taaactatga accaccctgt 360
 acaaaatgtc aac 373

<210> 5436
 <211> 474
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316075g05b1

<400> 5436

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 cgaccccatg tactacatcg gctaggcccg ttgctgccac cttagattgc tcctcggtcc 180
 tgatccacga gtgaataaac tccatgctct taatcatatg catgcttcgt caataatcgc 240
 cccccccct cccctccctg ttgttggttg gtaatttcc attggtgaga acttgagatc 300
 aattattatg taccctcca ctaatgggcc aattttgacc cgttggagga agggatcgta 360
 attggcggac caccaaaca cggtcgggag agtcaaccaa gtgccacat agaggaacga 420
 gaagttgtgc ccaatgatag tgtacaagt acgattacga aattgttcct ttgg 474

<210> 5437
 <211> 543
 <212> DNA

<210> 5439
 <211> 466
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316075g09b1

<400> 5439

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aagtccgttg agatgcacca tgagtctctc ctggaggcgc ttcttgggtga caacgttggc  180
ttcaacgtca agaacgttgc cgtgaaggat ctgaagcgtg ggtttgttgc atccaaactcc  240
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cctggtcaga ttggcaacgg ctacgccccca gtgctggact gccacacctc acacattgct  360
gtcaagtttg ctgagctggt gaccaagatc gacaggcgggt ctggtaagga gctggaagcc  420
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<210> 5440
 <211> 439
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsro9316075g10b1

<400> 5440

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caacatgagg aacaccatcc aggacgagaa gattgcctcc aagctgcctg ctgacgacaa  180
gaagaagatt gaggatgctg tcgacgccgc gatccagtgg cttgacgcca accagcttgg  240
tgaggttgac gagtttgagg acaagatgaa ggagctggag ggcctctgca accccatcat  300
cgccaagatg taccaggggtg ccggtgctga catgcccgga ggcatggacg aggacgcgcc  360
ggctgccagc ggcggtgctg gcccgaagat cgaggagggtc gactaaggta ttctctctga  420
tatagngaga aaatacact                    439
  
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<210> 5441
 <211> 263
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316075g11b1

 <400> 5441

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 tacaagctct gtttggtcct gtttgtattg taatatactg atgtgttaat atagtttgtg 180
 ccgtttatta cccttgtgga ctttaagcatt tccaaaaaaaa aaaaaaaaaa aaaacc:aaaa 240
 aaaaaaaaaa agaaaaaaga aaa 263

<210> 5442
 <211> 431
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316075g12b1

 <400> 5442

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 caatttgatc tgaagacgga cctgcggaag atggcggcga ccacacacca gtgcctctga 180
 cctgattatg cccacacacca ggcatgtggc tcgactgggg cttccacatg tgtccaagat 240
 tccggctatt gatgttagga ttacgcgagt tggctgggtc gtggcccggg tagctctcta 300
 tcatcatatc ggataggatt agtggcatat gttgccaata tgatggattc aggcacattg 360
 gggtgatact ttgaatggcc atcgtgaata atcaataaag tggccgtatg catcttccag 420
 atgcagaggc c 431

<210> 5443
 <211> 204
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316075h01b1

<400> 5443

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ttatgatggt cccctttttg tgatcagaaa cttgacaagt tactgtgtgt agaagaacaa 120
catcaccgtg gggctcttgt agcgcttttg tagtccaatt tttaccggaa gggaacttta 180
tagtcgttaa acgagccna nntt 204

<210> 5444

<211> 326

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsro9316075h02b1

<400> 5444

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cccctgcaaa ggggcgcctg ggagggtgag agccccgtac ggcccggacc ctgtctcccc 180
acgaggcgcc gtcaaccagt cagggtgttt gggaatgcag ccgaactcgg gctgtagact 240
ccgtccaagg ctaaatacat gccagagacc gatagcgaac aagtaccgca ggagccaaca 300
tcttaaaaca tgatgctcgc acctac 326

<210> 5445

<211> 257

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsro9316075h03b1

<400> 5445

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cacagggaaa ggcattcaag cacactgatc tcacaatctg tttgtccggg cacatctaata 120
gagccacaca ttcatgaaca actggagcga aacaaaagcc tatggtcctt ttgtgctctg 180
taagatgcaa cagcagcttc aatacaggct tacagggatg cccccgcta cggaacacat 240
gatgccccca ccggaaa 257

<210> 5446

<211> 469
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075h04b1

<400> 5446

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gatgtgctct atggggggtt tcttactttg tcagggtacgt ttcaaggaga atacaaggta 180
cgagcgagca tacggagtgt tatgcatatg ggtgtcatgc attcttggta actttccggg 240
ccgtaaaatt tccattcggg taagtactaa agcacacggg gtgcttttct gtgtatcatg 300
ttcacgggta ctacaaccag aatgtgatgt ttgttgatgt gggtagcatg taattgtctc 360
atgttaacta tcgcttatga tgtctaatat gttgagtttg tgttgaatac atgtatatgt 420
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<210> 5447
<211> 356
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075h05b1

<400> 5447

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acttcgtcat catgctgctc ttcgtcgtct gctcggcgc gccccggcgc aggcgctgcg 180
tcgtcgtacc gtgctactga cctgacctga cctcatggtg gccgggtggt gggagcctcg 240
atcggcggcg ctgcaggcag gcaagtggct ggtgctgtgg taggcgtttg tttggtaggt 300
gtctgaattt tctgactgat gcctgttggg cggaagaata aatctaattt ctgctg 356

<210> 5448
<211> 535
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075h06b1

<400> 5448

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ctaggtgcac ccgctctgta tcaattgtgc ccccggcata ttatgctcat ttggcagcct 180

tccggggtcg gttttacatg gaaccggata cctctgacag tgggtccatg gcaagcgggtg 240

cccgtggccc tacacagggg ggacgcaata ccaggccggtt tgggaacggt gctgtcaggc 300

ccctccccgc cctgaaagaa aacgtgaagc ggggtcatgtt ttactgttaa ggtcggatgg 360

tcattgttta cactattatg caaacctgaa gatattcgac tgagtttggg tgtgttaaaa 420

gtatccgcac tgcattgggtg gcactgggag atctccgccca tgcaaaaact ttaagtgggtg 480

cgcaatgtga aactctgtaa ccgactacct atctgtgggtc gtatttgaac taccc 535

<210> 5449

<211> 306

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsro9316075h07b1

<400> 5449

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cccaggaaag gggcgccctgg gaggggtgaga gcccgtccg gcccggaacc tgtcgcacca 120

cgaggcgccg acaacaaatc aaaaggggtg gaaattcttg cggacccaaa ctttatacc 180

cgttcacgcy ccaatacagg cttagaaaag ggtcccctac atggacccca agggccaatt 240

ttttacaacc cttttacggg gaaaccctg gggaaacca attgaatccc cttgcaaaac 300

accccc 306

<210> 5450

<211> 443

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316075h08b1

<400> 5450

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tgcaacatgt cagaccgccg ccgccacctg ttggtcaata ccctcccatg cagatgcatg 120
 gacagcctgc ctggcctggg cctccacaga atatgcaaca agtaccacct ccgatgcaac 180
 agcagcttca atacaggctt ccagggatgc ccccgccgcc gcaaaacatg atgccccac 240
 cgcaaaacat gatgccgcca cctcatcaca tggccaggcc gncgccgaca cctaccaata 300
 tgcaagctcc acctatgtgg aggccacccc cccccaca acaaggtggg ggaatgccgc 360
 cacctccaat gtccatgcca cctactccac cgncacctta tggttaaaaa taaaaatggg 420
 tgtcttccat gggttaattt ggc 443

<210> 5451
 <211> 177
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316075h09b1

<400> 5451

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 agaagaccaa gaccatacac gcggaagaga atgagaagct gagggcgagg ctgagaggag 120
 ggcaagtgga caaggaggcc gccagagaca gagattgacg gggggggccg ttttctg 177

<210> 5452
 <211> 382
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316075h10b1

<400> 5452

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 cagctcgccg aggcacgccg caacgccacc aggctgagga gggaggtcga gcgccatatc 120
 cgcgccaacg tcgcgctagc cgtgccgacc accagggccca aggtgcatgc ggccatggac 180
 cgagcgctcg cgctggactg catctaccg atgccgatgc ttcgggacat gcccgagaag 240
 ataccaagg ccgtcgagcc cactcactag cggacgcgcc gttccgcctt gtaggagccc 300
 aacaacttaa agagctacgg gcggtcgtga ggcacatcct gcaacggatg ggcccaagat 360
 caccaggacg agatgcgagg ca 382

<210> 5453
<211> 485
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075h11b1

<400> 5453

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gcttgcggcg gcctcctcct cctcctcgtc ttcctccccc ctgctcgcc tcatctccag 120
ccgccgtatg gccggcgccg cagatcacca cggatcgaca aaggtgaaca tgtggcagga 180
gcccttgaac cccggcaact ggaaggaaga gcactttgtg ctaaccagct tagcgatgtg 240
gggcgctatt atatatggtg gattgaaggt gtttggcggg aaaaaagaag tgaaaaccga 300
ggcggggtca gcgccagcag cagcaccggc acattaaact tcatccgagc tttattttct 360
taccgcaatc tgttttaagt atgttggtga cgataaattg agaccaagtt tgtaaggctg 420
gcaagggtta ggagctgcgc tgcccagcca ccatgaataa tctgaacgtg gtgtaa.cttt 480
catcc 485

<210> 5454
<211> 62
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075h12b1

<400> 5454

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ac 62

<210> 5455
<211> 303
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076a02b1

<400> 5455

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accctcatag aacagaagca tatatcataa ggatgaacac gaacagtttg aaataaatgt 120
gctctcatgt ttggagaagt tgttcatgta tagcagctgc tacgaaaatt tgtgcatgta 180
tagcaactgc ttggaagtcg taatgtacaa tttgtcattt gcccgttcca aaaaacattc 240
ggtactgaaa aaaagaaaaa gaaaaaaaaa agacaaatga aaaaaataag gaacacaaga 300
aag 303

<210> 5456
<211> 324
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076a04b1

<400> 5456

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ctacaatgtg ccttgtcaga acgttcgcag aggacgaaag ggtgtgatgg ctaccgcgcg 120
caccaggctg ctctggcac ttgtcggggt ctacgctgga ctccgctccg actgccggca 180
aggcatcact gacgcttccg gcgatgctat attggagcct gtgctcgtcg cgacacctga 240
gcgggtgtctg cctgcgccat gatctgaaga aagcacaaga gtaagcgtcg ggctgtctat 300
acgtactcga ggttatgttc ctgc 324

<210> 5457
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076a05b1

<400> 5457

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acgtccgtga agttcgcagc tagagcaaag tatgtcggta gagggatcct ggaccaccac 120
cgggacgggt cactactacc tggagatgag caactggagg aggcaaaatt agagtacgag 180
gggcaatgag tagatggtag atatctccga ttatgctcag gatgcatgaa ccattttgac 240
gatggtagtc cacgtaacca aggatacgtc tgaaagagga atatgcatgc cctgaactg 300
aagcaggccg gcggtccaag tgggtccatca aacctgtggg gcgagccaca tgtttttatg 360

taattcgacg acgtttgcac tcgacgaaat atctatc

397

<210> 5458

<211> 418

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076a08b1

<400> 5458

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tgggtgaggc catggatccc gattcgggtct cgaaggcgtt cgtgcagcac tactaccaca 120

cgttcgactc caaccgcgcc gcgctggtgg ggctgtacca ggacggctcc atgctcacct 180

tcgagggcga gaagttcggc gggcccgcgc tcatcgtcgg caagctcgga tctctctcct 240

tcagcagtgc cagcacaaga tcgacaccgt cgactgccag ccctcggggc cccagggcgg 300

cgtactagtc ttctgtctcg gcaccatcac caccggccca ggcgagcacc ccctcaagtt 360

cttacagatg ttccatctgc tgccagctgg agggagcttc tacgtgcaga acgacatg 418

<210> 5459

<211> 385

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076a09b1

<400> 5459

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atggtgagag atggaggcgg cggcggcggc ggccggcgtg cagctgggca cctcgaagcc 120

gcagatcgcg acccaggcgg agatggcgga ggcgcgcctg ccgatccct accgcaccca 180

gtgcgcgcac ctctcatcc cgctcaaaa gtgccgcgtc gccgagttct acctccctg 240

gaagggcgag cccgagcgcc actcctacga gaagtgccag tacgagctcg tcatggagcg 300

gatgctccag atgcagaaga tccgcgaggc gcatgcgggc gccaaagtca agggcagcgt 360

caccatcggc gtgccccctt gcccc 385

<210> 5460

<211> 512

<212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316076a10b1

<400> 5460

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tgctcctggc catggcctg gcctccgtct tcttcgctc cgcgtcggcg cagggcatca 180
tgggcgcttc gtcggctcct tcatcggcgc cggcgcccg gccagacacc ggagcggcag 240
ctggcctcgc cccggtctcc gccgtggccc gtggtcgctt ccgcgcttgg tgtccctgct 300
cgcggcgatg ctctgcagt agagatgatg gctgcgcttc gcctgngtga tcggtttcta 360
tacataccgt ctctgtagt gctaggctag atcgggtggg gtttgatgag tctctgttgc 420
agagtttggt cgatcggtg atctgttagg cattctttct ctctgtcata catatatccg 480
ctacattata ctgctgtgtg ccctgattta ta 512
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<210> 5461
 <211> 437
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316076a11b1

<400> 5461

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tgcagctcgc agctagatca cggcgtggcg gtagtgggat actgggccga caaggggaag 120
ggtcacgact acatgatgat gaggaactcg tggagtgagg agtggggcca gacgggctat 180
atcaggatga agagggggcac cagcatcggt gagggcctat gcggcatcaa caagatggtc 240
ttctacccaa ccaaggacaa gtaatgttcc agcctcaa at gctgcatcca caggattgaa 300
gatttgaacc atacttgaga gtccttgctc ctgatctttg catttccttg catttctttc 360
acgttttttt tctttctcaa agggttcttt tcgttaaaat ggaccaacat ggactgaaat 420
aataaaattt atttcca 437
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<210> 5462

<211> 449
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316076b01b1

<400> 5462

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tggtgaccag ttcacccctc tcggtcggat gctttacaag gcaccatctg atgggaaatg 120
gggcgaacat gagctggact acctgctgtt catcgtgcgc gacgtgaagc tgggtcccgaa 180
cccggacgaa gtgggtgacg tgaagtacgt gagccgggag caactgcggg agctcattca 240
gcaggcggac accggctagg gcggtcgtaa gctgtcccc tgggttcaggc tgggtggtgga 300
caacttcctc atgggctggt gggagcactt ggagaaaggc acgctcgcgg aggcgggtgga 360
catggaaacc atncacaagc tcaagtgagg acgccatctc ttgatagctg attgtgtgct 420
gaaaaagaac ttattcacag gcagctaga 449
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<210> 5463
 <211> 423
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316076b04b1

<400> 5463

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gtggagcacg ctgctgttac ctggtcgcgc tctcagcagt gtgaatttcc agaagcatgc 120
ttgccgtgcc ttcttccggg tgcaccggag gccggcatgt gagcaggggt gcttcagtga 180
tgcagaagaa aaaaggcaag tcttattggc atgggaaggc tacgccttta ttccaggtct 240
gcctctctcc atctaaatcc gtgtttggag gagggggcta cggttagttt acccaccggt 300
ttaccgtgtc cttgtgagtt gcggtcatta tcatgcactc gtcagttgct tgtcatgtat 360
gggtgccttg aattttcagc tacataatgg tcggttgtgt cagtgaatgg gagtgtgttc 420
atg 423
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<210> 5464
 <211> 420

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316076b05b1

 <400> 5464

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 cctgctcgac tgcgtacgtt ccggtgctcc ccgcctgta ttagtctgct gcgcgcgcgc 180
 cctgggcgcc ggctcctctc gacctgctgc gctgcgccgc attctgcgag cttgccatta 240
 acaggtcacg ataagcaggg gcacaagtgg ttttacgcaa tgggtcattt caagaacagg 300
 tacatggtga tggaggtctt catcgacgct agcagaggag aggctgatcc tgtcatcctc 360
 acccagttca acataaccaa agtgatcaga gacagcatcc agctcaactc tggggaatgc 420

<210> 5465
 <211> 467
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316076b08b1

 <400> 5465

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 aggaaggagg caatcgggta tggggaagat gtgctgcagc caggaggagg acgaggcggg 180
 gttcaacctg ctgccgctgg tgatggcgc cttcgtcatc atgctgctgc tcgtcgtctg 240
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 atcatggcgg tgcggtggtg ggagcctcta ccacgatcgg cggctctgaa ggcaggcaag 360
 tggctctgtg gtggtaggcg tttggtaggt gtctgaattt tatgactgat gcgtgttggg 420
 tggaagaata atctcaatgt ctgctgaatt cgatcggact gttaagc 467

<210> 5466
 <211> 340
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316076c03b1

<400> 5466

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gggcctgtgt ttctttgcgg atgaggccat gacacaaggg gtgggtccaa ggacgttccg 180
atcgaggtgg gaacagagat gatgttatgg atggctgaca gggacatagg aaacactggc 240
gagcttttta gccgggttac acatggatgt tgtgagaagt gcatttataa aaggcattaa 300
gaaggtgaac tcaatatggg agagaacaga agcattgatc 340

<210> 5467

<211> 387

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076c12b1

<400> 5467

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catgggaacc gtgaagtggg tcaacgtcac caaggggttc ggcttcattc ccccggiacga 120
cggcggcgag gaccttttcg tccaccagtc cgccatcaag tccgacggct accgcagcct 180
caacgagaac gacgccgtcg agttcgagat aatcaccggc gacgacggac gcaccaaggg 240
ctccgacgtc accgcaccag gaggaggggc gctctccggc ggctcccggc ctggcggaagg 300
cggctggtga ccgcgggggc cgcgggcggt atggaggcgg cggcgggtgg tactgcgggtg 360
gcggtggtgg ctactgaggc ggtggtg 387

<210> 5468

<211> 478

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076d01b1

<400> 5468

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atatacatca agatggacaa cccttcgagt acgcaggaca tgctcacta tgatcatgtt 120
cagaagcgcc atgaggagaa aggctgctta tatgcatgcc tgtttacact gtgctgttgc 180

ttctgctgct acaagacctg cgagtgtgct atggagtcct tgtgctgctg cggctaattt 240
tagctgcaca tttctgctgt tgcattggaga tctggcaggc tgggctgtac tgtggaaacc 300
catatcgttt cgcttcgggt agatgatgaa caggcatatg tgcttggtcg aataaaaact 360
gtagttacgt ctctattgtc atgtatattg ttggtcgcca aaaataagag agtatgctgt 420
tgggtgtgtg ttgcctttga cgattgtcat gtatagtgtc gtcattgtcta tggggata 478

<210> 5469
<211> 389
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076d04b1

<400> 5469

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cggacgtcga gtaccgttgc ttcgtcggcg gtctcgactg ggccaccgac gaccagtccc 180
tccagaacgc cttctacaag tacggcgaca tgatcgactc caagatcacc actgacaggg 240
agacggggccg ttcccgcggg ttcgggttcg tcaccttcgc gtcggacgag gtgatgcgcc 300
aggcgatcga ggccatgaac ggccaggacc tggacggacg caacatcacc gttaacgagg 360
accattcccc ccgctccggc ggaggcggc 389

<210> 5470
<211> 416
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076d06b1

<400> 5470

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tggaactaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagaaaaaa ataaaaaata 120
aaaaaaaaaa aaaaaaaaaa gggggggggc cttttaagg atcaaagttt acgaccggg 180
gaaggcaaag caatagtttt ttaatgggga aactaaaatt aaattaatgg gccgcggttt 240
aaaaacgtgg gaatgggaaa aaccggggg taaccaaatt aaatgggttg gaagaaatc 300

cccttttggc aagtgggatt aataacaaaa aggcccgaac ggatggcctt tccaaaaatt 360
 tgacaaactt aaagggcaaa gggaaccccc ctttaaaggg cttttaaggg gggggg 416

<210> 5471
 <211> 57
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316076d07b1

<400> 5471

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<210> 5472
 <211> 471
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316076d08b1

<400> 5472

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 ggagcctggt gccactgctt gtgctgacct aacgacccat tggagctggg acggtattca 180
 cttgacggag gctgcttacg gtcatatcgc caggggttgg ctatatggcc ctttcgcaga 240
 ccaaccgatt gttcagtcct cgtgagcatt ccacctctgc tgttgcaact gtagagcgtc 300
 tgagaatagc aactaaact ggagaaggga aagtagttct tccatatagt tccaatgggt 360
 catacgtgta tattttcatt tgattgaatt cattgcaagt ggggtaaaaa aaagataccc 420
 tttctaaaaa acaaaaaaaaaa ggtttcggca ccttaaccga accaaacttt c 471

<210> 5473
 <211> 216
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316076d09b1

<400> 5473

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 ccgcgggggtg cccctgcttg tacctagatg gttactcttt ccgtccattg tcaccggcta 180
 acattgtgat aatatcagtc tgggtaatgt tagatt 216

<210> 5474
 <211> 383
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316076d10b1

<400> 5474

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 gggttgttgg gttcatggcg agtctggtaa agtctgcggg gatacggaaa ctccgttgat 120
 ctttggtgaa agttacctaa aaaaaaaaaa agaaaaaaaa aatgaaaaaa aacaataaaa 180
 taaagaaaaa aaataaaaaa aaaatgtaaa aataataaaa acaaaagaag aaaatgaaaa 240
 taagaatgga aaaaataaaa aaaggggggg gccgttttga gggctcaaat tttccctggc 300
 cggggttgca caacatTTTT ttttttatag ggccccctaa tttaaatctt tgggcccttg 360
 ttaaaacaac ctctaattggg aaa 383

<210> 5475
 <211> 529
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316076d11b1

<400> 5475

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 tacaacaacc tgggacgggc gggcctccgc gttagccagc tctctacgg cgcgtgggtg 180
 accttcggca accagctcga cgtcaaggag gcgaaatccc tctccaggc ctgccgggac 240
 gcgggggtca acttcttcga caacgcggag gtgtacgcca acgggcgcgc cgaggagatc 300
 atggggcagg cgatccggga cctgggggtg gccgtgccg acgtggatcat ctccaccaag 360
 ctcttctggg gcggccaggg gcccaacgac aagggcctct cccgcaagca cgttgtcgag 420

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 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316076e02b1

<400> 5476

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 actcaggccg gcgagagtgg gactgcgtac ctcgctgttg accgacactg ggcgtatacc 180
 cgacccgaca acacttttat ttagcccacg tgacgcgacc ccgcgcatag cactcccact 240
 ccacacctag taaaaagtat cattccactc cactccactg getgactcag catcacgccg 300
 tgccacgtag gagcacacgg tcgccgccgt ggaagctgac ccggccagat gctcctccgc 360
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<210> 5477
 <211> 441
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316076e05b1

<400> 5477

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 ctgctacctg gtcagtctct cagcagtgtg aatctccaga agcatgcttg ccgtgccttc 180
 ttccgggtgc accggaggct ggcagtgtgag caggggtgct tcagcgatgc agaagaaaaa 240
 aggcaagtct tatcggcacg ggaaggctac gcctttcttc caggtctccc tctctacatc 300
 taaatctgtg tttggaggag ggggctacag ttagttcacc caccggatta ctgtgtcctt 360
 gcgagttgtg atcattatca tgcactcggg agttgcttga catgtctggc ggtacctctt 420
 gaattatcag ctacatataa t 441

<210> 5478
<211> 200
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076e07b1

<400> 5478

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gctggttgaa cttgtataat attatgtcgt ggaattgccg gccttcataa aaaaaaaaaa 180
aaaacaaaaa aacaataaaa 200

<210> 5479
<211> 486
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076e08b1

<400> 5479

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attccttccc gtacagggag ctggagaacg gcgtgctctg ggaagtcgat ggccattggg 180
tcgttcaagg agcagttgat gtggacattg gagccaatcc ctctgctgag ggtggtggtg 240
acgatgaggg tgatgatgac caggccgtga aggtggttga cattgttgac accttcgctc 300
ttcaggagca acctgctttt gacaagaagc agtttatctc tcacatgaag cgctacatca 360
agaacctcac tgccaagctt gaaggggatg acctagatgt tttcaagaag aatgttgaga 420
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tgcgatg 486

<210> 5480
<211> 534
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076e12b1

<400> 5480

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 ttcacggtct ccgatgatgc agcagcagta tcagcagcag ccgatgcaca acccggttgta 180
 cgcctcggcg cagcagcagc aggccttcat gctccagcag cagcaggcct tcgtgctcca 240
 gcagcagcag cagtaccagc agatgatgat gatggggcgc cgtcgtctcc atcgccaggc 300
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 atcctccaac ccgtccttcc atcgccaggc atcctccaac ccgttcgaca gatcgtagct 420
 gccggcagcc gccggggcg tggtgggtac ccttatgctc cggcgatgca gctccacacc 480
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<210> 5481

<211> 329

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076f01b1

<400> 5481

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 agctgcaggc ccaataatga actgctcgat tcgattgata gccgcgattc tgtccgcgat 180
 tcgtagtgat gcatgctatc tcgcatgata tgctgcccc tgttctagta gcctcaaatt 240
 attggtgttt ccagttccgc cgatataaat tatctattat tattacaggc gaagaaaaca 300
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<210> 5482

<211> 338

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076f02b1

<400> 5482

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gcgacgaacc ctaactcggt gaacttcaac gtcattgggtc tttcaaaaca gtgaatcggt 120
gatgtaaggt ggaatggata ggcttgggtct tttccattct catgggctgg tgcctgatag 180
tcagcatagc ccgtcggaaa aacagagact tgttgccctaa aagtaaaactg tgctctttgt 240
gcagaagtta tgtctttgtc ttctgggttt tgtatcagaa ataaaaaagg agtattagtt 300
gctggattgt taaaaaaaaa ataactgtaa aaaccatc 338

<210> 5483
<211> 448
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076f07b1

<400> 5483

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cctgcattga cagtttcaaa ggtgctcctt tcaatctgct ctctactaac ggacccaaac 120
cccgacgacc cgttgggtcc ggagattgca cacatgtaca agagcgaccg tgcgaagtat 180
gagtcacag cgaggagctg gaccagaag tatgcaatgg gctgacctg gagccgcgct 240
tggaggatga tgttggggcc atcttcgctt gttacaccta atgtatcttt gttcctgttc 300
tgctgctgct atatgggatt gtactgtcca cctacctgac tgaattcaag tgtcatattg 360
tgaagtgatg gcagatggcc cttatgggtc tatgggtgca cccatccaac aaattaatag 420
agatgggaac cgaaacttaa gttgttct 448

<210> 5484
<211> 452
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076f09b1

<400> 5484

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tattcacagg ggtgggtggtc aggtcattcc caggccagg agggctattt atgcttctca 120
gctgactgcc aagccaaggc tgctggagcc tgtgtacctg gttgaaatcc agggcccgga 180
gaatgcgctt ggtggcatct atggtgttct gaatcagaag agagggcacg tgttcgagga 240

gatgcagagg caaggtaccc cgctctacaa catcaaggcc tacctccccg tcatcgagtc 300
 ctttggggttc tcaagcaccc tgagggctgc gacgtccggc caggccttcc tccagtgtgt 360
 gtttgaccac tgggacatca tgggcttcga tcctttggac cccggcaccc agtctgcgac 420
 gcttgtcacg gagatccgga tgaagaaggg gc 452

<210> 5485
 <211> 535
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316076f10b1

<400> 5485

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 attcggatgg ctgggccag agcacagctg atatgactgc ttttgtgcaa aatcttctag 180
 ttcagatgca aaccagggttc caaactatgt cagagaacat cattacaaag atagatgaaa 240
 tgggtgcaag aatcgatgaa ttggagctga gcatcaatga cctcaaggct gaaatgggca 300
 gcgatggtat gaccctact aaagtgaagg acgaagaatc aaagccagca gacagctctg 360
 cctgatttaa gcagaagtag cagaagcaag tcgtattagg cttggctcca tgtcaatatc 420
 atcagccatt catcactaac ttaatgcatg ttatgagatg gtattcgac tgttatatgc 480
 atttgagatc tacagtacct gtcgtgagag atctcttttg atgcattgat gcttg 535

<210> 5486
 <211> 447
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316076g09b1

<400> 5486

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 gtgctgacgg aggaggcgcc cgcgggtggag acgccggtgg ccgccgagga ggccccgaag 180
 acggaggagg tcctcgcgcc ggccggaggcc gaggtcgagg cgtctgcccc cgtcgagggt 240

gaggcgacca aggaggaggc gccgggcgcc gctgagacgg aggaggccaa ggagaccgag 300
ccagcagctg cggccgagcc ggaggccgag gcgccccaaag agccagaggc gccagccgtg 360
gtcgagacag agaccaagga ggccgtggca gaggccgagc cggcgggtgt cgaagagggtg 420
aaggaggagg ccgcgcctgc tgccgag 447

<210> 5487
<211> 530
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076g11b1

<400> 5487

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gctggccggc gtggcgctgg gagggggcgc ggccgagggg gccggcgagt gcgggagggc 180
ctccccgac cggatggccc tgcgcatggc cccgtgcata tcggcggcgg acgagccgga 240
ctcggcgccc tccagcagct gctgctcggc ggtgcacacc atcggcaaga gccccagctg 300
cctgtgcgcc gtcattgtgt ccggcacctg caagatggcc gggatcaggc ccgaggtcgc 360
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ttacacgctg ccttgatggc ccggcaatgc tgccgatcaa gatgaatgct gtggaagggtg 480
tcgtcgtgtg ggaataagcg agtgggtgcat gtaccactta tgtggggcac 530

<210> 5488
<211> 532
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076g12b1

<400> 5488

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cgcacgcgcc ccagggtcca ctccccactgc ccgcagacgg cgcgcatgta ctacaagccg 180
ccgcagtcca cctcctcgtc gtcacgggc gccgcccagg ccgacacgac tgatccgagg 240

gcagccggct ttgacggtgg cgaggacgtg gcggctggct tccgggcctt cgcagcctcg 300
ggagctctcg gcgccggtcg tcgtacagcc gcggttcggc ttcgacaccg cgcaggtcgt 360
catctacgag gtcgtatgag ttgaggctcc gaacaacgag ggcgggctct tctggggaga 420
gatctcttcg atgagaatat ttatgaggcc atggaagtgg tcgatttatg acaccattct 480
ttaattagtt tgcgtacatg ccggaagaat tgatcacaga agagtttttt gt 532

<210> 5489
<211> 492
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076h02b1

<400> 5489

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gttcgcaaca tagtgctatc ttatcttatg cacaattggt ttaaggagac cgcagagacc 180
ttcctatcca gcactgggct aaagttacct gttgattata ctgtagatgt ggataaacgt 240
aaagcgatct taaatthttgt ggtggaaggg gatgccgtga aggccataga actgacagaa 300
gagttggcgc ccaacttgct agagaatgac atggatttac attttgatct tataagttctt 360
cacttcattg agctaattcg ttccagaaaa tgcacagaag cacttgagtt tggccagaaa 420
aagttgacac cctttggtaa agtttccaag tatgttgaga aattagagga ctttatggcc 480
ctcctagctt at 492

<210> 5490
<211> 243
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076h04b1

<400> 5490

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tgggtctcaa ggaggagttt gaggagcacg ctgagaaggc caagacgctg cccgacacca 120
ccaccaacga gagcaagctc tgcctctacg gcctctacaa gcaggccacc gtcggtcccg 180

tcaacaccgc ccgccttggc ggcctctttg atatggcccg catggccaaa atggatgctt 240
gga 243

<210> 5491
<211> 537
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076h05b1

<400> 5491

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ctccaagcgg ttccaagtga agttcaagag aaggagacag gggaagaccg attacagggc 120
caggctcagg ctactaacc aagataagaa caagtacaac acgccaagt accggtttgt 180
tgtacgattt accaacaag atgtcactgc gcaaattgtg tacgctacca ttgctggtga 240
tattgtgatg gctgctgcct attcccatga gcttccctcg tatggtcttg aagttggcct 300
caccaattat gctgcagcgt actgcactgg tctgcttttg gcccgacgtg tgctcaagtg 360
ccgtgatttg gatcaggaat atgagggcaa tgttgaggcc accggggagg acttctctgt 420
tgagccagct gatgagagga ggcctttacg cgcgctcttg gatggttggtc ttattaggac 480
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<210> 5492
<211> 93
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076h07b1

<400> 5492

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ggttatacc acctccccgc aaaaagaact acc 93

<210> 5493
<211> 191
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077a04b1

<400> 5493

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gtgcgctaaa gaactctttt tttattatta ctaaaaatat gtataccgga tctaacttat 120
ttgctatcat tttctttctt ctgtgtcaca aaaaaaaga tgaactgaaa aactaaaaaa 180
aataaatggg t 191

<210> 5494

<211> 470

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077b01b1

<400> 5494

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gtccgctgtt cgggattatc tggaagcgta caagctggac tcggagaatc ctctaataca 180
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gcaggaggcc ctgtacaaca tagcccgggc ttaccaccat gtcgggctca aaaccctggc 360
ggccatctac tacgagaagg ttttagccat ggaggtggaa gatcacccca tacccaagct 420
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<210> 5495

<211> 224

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077b04b1

<400> 5495

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ccctttttta aggtcccaac attcctgccc ctactgccc cctcatccc tcttcttttg 180
tgtcacctaa tttaaateca ctgtcccca ttttaccccc cttt 224

<210> 5496
 <211> 570
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316077b06b1

<400> 5496

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ccagcaaagc cccaaacccc aaaagggggc ctaaaccgggc cccccactaa aaactacca 180
aatccccccg ggcgggttcc cccccaaaac cccatgggtt gggaaccca accccaatc 240
ccccccccc cctgaacaac cttaaaactg ggaaaacccc gcggtgcccc aaaaaaaaac 300
cccttccaac aaaaccccc cttaccaccg gggccaaata cccaaaaggc cccaaaaaaa 360
cccctcttca caaaattccg aaaaccaatt gggcaaagga aacccccct aaaccgcgcc 420
caaacttcca aaactttggt cctttcccc cccacacaaa cccccacaat tgccccgcc 480
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 <211> 519
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316077b07b1

<400> 5497

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ctgatctgac ggagcagggc agtgccgagg tccaggctgc cgccatggtc gtcctggcg 180
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<210> 5498
<211> 329
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077b10b1

<400> 5498

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taacatttgt tgaggcattg cccaacgggt gctcatatta ttaccaaac ttggtatttc 240
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ccgttctttt acaacatttt tactgagag 329

<210> 5499
<211> 395
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077b12b1

<400> 5499

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<210> 5500
<211> 517

<212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316077c01b1
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 gcgacgggcg tggccatcgg catctgcgcc tttagccttc ttcgcaacat caccggcaac 180
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 ctcgcaatta gtaactgttg tggtaagtgc caaacctatt tcaagcattc agtaatgttg 420
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<210> 5501
 <211> 535
 <212> DNA
 <213> *Triticum aestivum*
 <223> unsure at all n locations
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 <400> 5501
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 gcccggtggc aaggtgctgg cctactccga caagacgcgc gtggagatgt tcgccgtcgg 180
 cgacaacgcc ctccgcatcc agggccaccc ggagtacacc aacgacatcc tgctcaacct 240
 caccaaccgg ctcgtaaca acagcaccat cgacgggtgc gtgggcgagg actcgcggag 300
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 gaagggatca ggatgcgccg gcggtggcgg tcccaggccg ccgccgcagg gaccgggccg 420
 ggagcttagc tgcagccacc acgtcgtcga cttccctgcc accgtcttcc ttattggtt 480
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<210> 5502
 <211> 316
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316077c09b1

 <400> 5502

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 cttcaacttt gaacccaag ccagcgaccg tggaccaccc acggagaaga agcttgccgc 120
 aataaggtcc ctgtgctttg ggggggtattt atctagtttt gttgactgat tgatgagggc 180
 aacaattcgg tttgtattga ttaaattttt tgggtctgttg atttctagta cataatctac 240
 acattgttgt attatgacgg aattgtttgt aagcagtttg tttgtataat ctgtccttta 300
 cattgtctta caatct 316

<210> 5503
 <211> 282
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316077d01b1

 <400> 5503

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 gaagtacgtg agcaacctat agaggcgtga gactagccga taccttgaga tgttctactc 180
 cctgaagtac cgaagaactg ctgctgcagt ttcattggcg gttgaccgcc agaacttcga 240
 caactagcct ggagcaatgg ggcatgaaga ggatcattta gc 282

<210> 5504
 <211> 284
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316077d04b1

 <400> 5504

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gaggcaaaaa aagactacac cgaaaccggc ctggccgtct acggcgacca ggcggccggc 120
 ctctatgctc tccagctcaa ctctttgtct agcctgccga tgactctcaa gaacgccttc 180
 ttgcttgccc tccctggagac cgtgggtggc ctcgggtggca cgcttttaac ccctgcccag 240
 gtggccccct tgctcccgtt cacggtttac cccaccggg cgga 284

<210> 5505
 <211> 364
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316077d05b1

<400> 5505

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 gcctatgtca ataccctgac aactgggggg cgcttttta agggaccctt cttaccacc 180
 ccgtgcttcc acggcattat cctttttgtg gggctcccga agtacaatgc atagccggcg 240
 ttccacacgg cagagatggg aaaaaccctg gcttacacca ggtcaatgcc ttgcactgga 300
 ctcccccttt caccggctcg gattatagaa atggggcccg acccaatccc ctttcccaac 360
 aggg 364

<210> 5506
 <211> 262
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316077d08b1

<400> 5506

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 atagtgtaca ctgcgaagga gatgatgact aaagatgaaa tgaactgtcc gccaccgttc 180
 gcagggtgaa caaatgaact gagatgttat cttgaacggg gacgaaagaa gaaactgttg 240
 ctacacgatg gcaaaaactta aa 262

<210> 5507

<211> 99
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077d09b1

<400> 5507

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cgcgcccccg aggagatcaa gaccgtacaa cgggaccaa 99

<210> 5508
<211> 368
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077d10b1

<400> 5508

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gccagagctc gactcgctcc cttagagtaa ggatggtgag agtcagtgtg ctgaacgatg 120
ctctcaagag catgtacaac gctgagaagc gtgggaagag gcaggtcatg atcaggcctt 180
cttccaaggt cattatcaag ttccttatcg tcatgcagaa gcatggatac attggcagat 240
ttgagtatgt tgatgatcac aggtctggca agatcggtgt tgaattgaat ggcaggctga 300
acaagtgtgg tgtcatcagt cctcgctttg atgttggtgt caaggagatt gagggatgga 360
ctgcaagg 368

<210> 5509
<211> 489
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077d11b1

<400> 5509

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tggggatcct ctcacacgtg aacgccgact atttcccaa gtgctgcaac aactgcaggt 180
ccttctcggg ggctcgacgtc tgcgacgacg cccaccccca gtgcccgaag ggctgctcgg 240

cctgccgcgt ggtgacgccg agccctcaca agacgttccg gtgcgccgac atgaagagca 300
 ccgtcgatgg cacctgcggc gggccatgca agaagcactg atccgttcag ggcttcaggc 360
 tcagacgagg tgtgccgtct aaaataaagc tcagatgaga tgagcagtca tgggtgcctat 420
 gcttgtgtgt gggtcgtgct atacggccaa caaatatgat actgctatcg acgtgtcttg 480
 gtcaatgtg 489

<210> 5510
 <211> 375
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316077d12b1
 <400> 5510

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 gcgcccgcgc cgtggacggc gtcggccccg gggcatggga caacaacgtg gccaggtttg 180
 cgcaggactg ggcggcgcaa cgcgccggcg attgccggt gcagcactcc ggcgggcccgt 240
 tcggcgagaa catcttctgg ggttctctggc agtcgtggac ggccgccgac tccgtgaagc 300
 tgtgggtgga cgagaagcag aactaccatc ttgacagcaa cacctgcgac tccgtgaagg 360
 ggtgcgggca ctaca 375

<210> 5511
 <211> 482
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316077e06b1
 <400> 5511

ctcttctttt ggaggagatt ttttaagatac tgctacctgg ggaaccttta atattgtgcg 60
 ggggttctgg ggactggata agaagctggc tcaaagaaag catctcccat ctgttaattg 120
 attcattttt tactcaaaat actccacgga cttggaagga tactatgaaa agattgatcc 180
 tggctttatc gacatgagaa caaaagctcg tgaagtgttg cagagagagg atgacctaaa 240
 cgaaattgtc acagcttgtt ggtaaagatg cactgcgaga atctgacaag attaccttgg 300

agacagccaa gcttctgagg caagattatt tggcacacaa tgcttgtacc caatatgaca 360
 agtattgtcc attctacaaa tctgcctgga tgatgcgcaa cattatacat tcaaatacat 420
 cngcgaatca agccgtggag cgagcatcca atgctgatgg acacactaaa cctacgcccgt 480
 cc 482

<210> 5512
 <211> 528
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316077e08b1

<400> 5512

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 tgctgacgcc gttggacagg gaggtgccc aagtggtggt ggtgatggcc ggcgacgaca 180
 tgccgtcctt cctcgccagc gccacgcgcg tcgccttcgc cgaggcggcc aaggtgcagc 240
 gcccgactg ccagtgcggc gccaaaggacg tcgccgacct cgtatagcta actgtggtc 300
 tctcgccgcc gatcgacacc caagtatata tgtgtcgggt aaatcaaacg gggggagcta 360
 aattgtgctt cttttatgta gattattaca ctagtttaca tcatttttct ccctagttag 420
 tagttttggt gcaacgatgc gaatgcgggt ctggggcctt gtccaggagg cttgttgtct 480
 gagctccaag catgtacgag tgcgcaatta tatgctaatt ggttgcac 528

<210> 5513
 <211> 532
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsro9316077e09b1

<400> 5513

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 gtggatgcgc gccaccacat gctgggtcgc cttgcgtcga tcgtggccaa ggagctgctc 120
 aacgggcagc gcgtagtggg tgtccggtgc gaggagatgt gcatctccgg cggactggtc 180

cgtcagaaga tgaagtacct ccgcttcctc cgcaagcgga tgaacaccaa gccctcgcac 240
 ggccccatcc acttcgcgc cccctcgcgc attttctggc gcaccgtgcg cggcatgac 300
 ccgcacaaga cgcgccgcg cgaggccgcg ctcgccaggc tcaaggcttt cgagggcggtt 360
 ccgccgtctt acgatcgcac caagcgtatg gtcacccccg acgcgctcaa ggttctgagg 420
 ctgcagccgg ngcacagggt ctgtctgctc ggcgagcttt ccaggaggtc ggatggaact 480
 accatgaaac tatcagggac tggaggagac gaggaaggag aaggccaagc tg 532

<210> 5514
 <211> 453
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316077e10b1

<400> 5514

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 ctgctcgggc ctgtgattga ccagaacttc tactatgtgg gtctcaagta caccggcccc 120
 accttcgcac gcgccatgag caacatcctt cccgccatga ccttcgtgat ggccttcac 180
 ttcaggatgg agaaggtgga cctgagaaat ttgcggtgcc aggcgaaggt ggcggggacg 240
 gtggtgacgg tggccggcgc gatgctgatg acgctctaca aaggcccgt gatgcggatg 300
 gcgtggacga gccacggaca ggcccacggc ggcgaggccc cggccgtcga tcccacgggc 360
 agggagtggg tcctcggctc gctctttatc atcatcgcca ccctcgctg ggcctcgtc 420
 ttcaccttc aggtcacac cctgaagcag tac 453

<210> 5515
 <211> 335
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316077e12b1

<400> 5515

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 gtatgctctc cagctcgtct cgtcgtcgat cctcccgatg acgtcgaaga acgcatcga 180

gctgggcctc ctggagaccc tgggtggccgc cggcggcaag ctgctgaccc ccgccgaggt 240
ggccggcaag ctcccgcca cggcgaaccc cggcggcg gacatgggtg accgcatgct 300
cccgtgctg gcctcgtaca acgtggtgtt ctgca 335

<210> 5516
<211> 559
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316077f04b1
<400> 5516

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ctgcaaagat ggggaggata ccgtctctga agaacttcaa tgcgtttccg cacgcc:gaag 180
accacctgct gaagaagact tactcgggtg ctatagtgac gattctcggg ctaatt:gtta 240
tggttacact tttcgcgcac gagctcacgt tttaccttac aacctatacg atgcat:caga 300
tgtctgtaga tctgaaacga ggagaaactc taccaattca tataaatgta tcattt:ccat 360
ctttaccatg tgaagtcttg agtgtggatg caatcgacat gtccggcaaa catgag:gttg 420
acttgcatat aaatatctgg aagctccggt tggataagta tggccacatc attggg:actg 480
agtacttgct tgatcttggt gaaaaggagc atggaactca tgatcatgac catggg:catg 540
agcatgatgt agaaaagaa 559

<210> 5517
<211> 566
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316077f10b1
<400> 5517

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gccgagccaa ggccaagagg aagcagccat ggcgggcgcc aagaagaggc cgtggaagtg 180
ctgtgaccag gcggtgtgca ccagggtccat cccgccgatc tgcagctgca tggacc:aggt 240

cttcgactgc ccctccacct gcaagtcctg cgggccgtcc atggctgacc cgtcccgcc 300
cgtctgccaa gaccggtaag tggcgaccc cgggccatc tgcaggccgt gggagtgtg 360
cgactcgctt acctgcacca ggtccaaccc gccgacgtgc cgctgcgggg acgaggtcga 420
caagtgtggt ccgacctgca agacctgcct gccgtccagg tcccgacct cccgacgcgt 480
ctgcatcgac agctactttg ggcccttccc gcccgatgca cgccgtcaga gctgttgccg 540
acgcggtagc tagcatgcgc agcaca 566

<210> 5518
<211> 357
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077f11b1

<400> 5518
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tcaagagagt tggaaagagg caatggatac ggatgaacac actccccagg ttccgataat 180
gtgcataaac aactgcgggt atttcaggaa cccgatgaca gaaaacatgc gctcaatgtg 240
ttaccgagac actgtctagg acaagagcat ggccctgcta gatgagaaca caactcgccg 300
tgctgcagca tcgtgaccca caccaatggt ggcagacatc aaggatgaag cgtgtgc 357

<210> 5519
<211> 441
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077g03b1

<400> 5519
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gcatgcttgc cgtgccttct tccgggtgca ccggaggccg gtatgggagc aggggcgctc 180
cagtgatgca gaagaaaaaa ggcaagtctt attggcaggg gaaggctacg acctttcttc 240
caggctctcc tctcttcac taaatccgtg tttggaggag ggggctactg ttagcttacc 300

caccggttta cegtgtcctt gtgagttgag gttatcatgc actcagcagt tgcttgtcat 360
 gstatggtgtc cttgaatcag cagctacata atgggtcgggt gcgtcaccga atgggagtgt 420
 gatcatgtga gtcaattagc t 441

<210> 5520
 <211> 537
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316077g05b1
 <400> 5520

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 acaagaatgc cttcaaggca cttattgctg cagagtactg tgggggtcaag gttgagctga 180
 ccaagaactt tgagatgggt gtctcaaaca aaaccctga attcatcaag atgaatcccc 240
 ttggcaaggt tcctgttctt gagactcctg atgggtgctgt ttttgagagc aatgctattg 300
 cacgctatgt tgctcgtcga aagggtgaca acctgctttg ggggtggttct cttattgaat 360
 atgcgcgtgt tgagcaatgg atggactttg gtgccacaga ggttgatccc aatatcgcaa 420
 ggtggctgta cccaaagctt gggttatatgc cttacaatgc ccagtctgag gaactcngca 480
 ttgcttgatt gaaagggccc ttgagcattg acacacacct gcataaacac attcctt 537

<210> 5521
 <211> 549
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316077g08b1
 <400> 5521

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 ggcacaaaca ccggcagctc ctctccctc cactcctcgc cggagaactc cacgtcgcg 180
 cccgccagga agcggagcaa gaacaaccct ggctgcggcg ccgcaggagg gcagcaggtg 240
 aagctgccgg ggccggtgct gccgtcgtgc gatctggacc tctgctgac gcccttgtcg 300

tcgccgctgg ccggcgggag gcgaggcggc gcgtcagacg agtactccac cagcagctgc 360
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 aactgagaac ctgagtgtaa actgtaattg tgcagttcgt gtgtgtgtgt gtgggtggtg 480
 attaattatg ttgcatcggc gttagtcaat gacgtttttg ggaccggcaa aaaaaaiaaaa 540
 aaggtgggc 549

<210> 5522
 <211> 514
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316077h04b1
 <400> 5522

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 ttgacgcggc tttcattaca gaagttagtg gctccatgct ccagtctgat ttccactcct 180
 cgctgatggc atctgaaagg atcgtgcctg gcttggaaga cggcgaggca gctctccgca 240
 ggacttcac cagagatggt ttgtcaagtg aaagatcaga tgtttctcaa tccagcttaa 300
 catctgtgtt gctgctact tcaagtgcac catccatcat tggagaatca attccagatg 360
 caactgctag cagagaagat gttccaacca tattcagcgt gtcacatggc cagattggtg 420
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<210> 5523
 <211> 553
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316077h05b1
 <400> 5523

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gcacgatggt gtccttggtg gtggttccac taggattccc agagtgcagc agcttctcca 240
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cggagccgtc gtccaggctg ccactcttgag cggagagggc aactagaagg ttcaggacct 360
gctgctgctg gatgtcactc ctctctctct tggctctggag acggacgggg gtgtgatgac 420
agtgttgatc ccaaggaaca ccaccatcct caccaagaag gagcaggtct ttttcaccta 480
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gacaacaatc ttc 553

<210> 5524
<211> 104
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077h06b1

<400> 5524

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<210> 5525
<211> 244
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077h07b1

<400> 5525

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agtacatctt tggatggcca tcatgaaaaa aggtctttaa aaaaaaaaac actaaccttt 180
cttgtttatc aaaaaaaaaa aaaaaaaaaa actacaaaaa acataaaaaa aaacaaaaac 240
taag 244

<210> 5526
<211> 488
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077h11b1

<400> 5526

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cgaggaggct cggtggtctc ctgctccagc aaacgcaggc ggtggtcgcg gaggagggac 180
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agctctacag caagaccccc aagaagaaga agctgtctgc cttggaatct gaggttcctgt 360
ggacacagga gacgcttaat gcctcgtgtg ataggttggg ggagcttcaa aagaaagcag 420
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gtggagct 488

<210> 5527

<211> 96

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078a01b1

<400> 5527

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cctgcgcggg gtgaggtgtg gagatgatgg ggggag 96

<210> 5528

<211> 98

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078a02b1

<400> 5528

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gtcggcgtgc cccgagagga gtggagatga tgggggga 98

<210> 5529

<211> 367

<212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316078a07b1
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 agcctgtctg tttggggcca atcaaacc aaacaagt catgtctgat ctcgacgtcc 180
 aggttccaac tgcttttgat ccgttttctg aggcaaatgc tgaagactcc ggccctgggtg 240
 ctggatcaaa gaactatgtg catgttcgtg tccagcagcg caacggaaga aagagtctga 300
 caactgttca aggcttgaag aaagactacc gctataacaa gattctcaag gatctcaaaa 360
 aggaatt 367

<210> 5530
 <211> 234
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316078a08b1
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 cattctcct gagaggggtg tcttgatata cttttctgtg aacaacaaat ggggcagttc 180
 tcctgtaagc gttcaggaaa aaacctgggg ataccacaaa taaaaaactt aggg 234

<210> 5531
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 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316078b01b1
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 gtcggggga ctgttggcct ggtccaagaa aaatccaagc acagagcaga ggagcatata 180

gcctcgagga aggaaagaaa cagagcggct ttgctgtttg ggaggtggcc ggcgagagag 240
atggggcagc tcaggccggc ggcgggaggg ggcggggact gcctgatcaa gctgttcggg 300
aagaccatcc ccgtgccgga cgccggcgcc ggcgccaacg cgggagacgt cgacaaggac 360
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<210> 5532
<211> 373
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316078b02b1
<400> 5532

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ggtgaacagc gccgccgacg cagcgtgcgg cggcgtgggc gtgctcggca tcgcctgggc 180
cttcggcggc atgatcttcg tcctcgtcta ctgcaccgac ggcattctccg ggggccacat 240
caaccgggcc gtcaccttcg gtctcttact ggcgcgcaag gtgtccctgg ttgcgcgct 300
gctctacatg attgcgcagt gcctcggcgc catgtgccgg gtcggccttg ttaagccct 360
tcagagcgcc tac 373

<210> 5533
<211> 368
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316078b04b1
<400> 5533

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tcttgatgt tgacatcatt gatgaaacca tacaggtttc aagtgatgag tccattgaga 180
tggaagtc tctggcattg aaagaaggat tgctggttgg aatctcttct ggtgctgctg 240
cagcagctgc aatcaagggt gctcagaggc ctgaaaatgc agggaaactc tttgttgttg 300
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368

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<211> 107
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078b05b1

<400> 5534

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cccagaattc acccagatac gcatacacc gcccggttaa taacaaa 107

<210> 5535
<211> 414
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078b06b1

<400> 5535

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agccaccctc tggtaagga aggcaagctc gccaacctcc tcgcatggcg ggcggggagg 180

attctctgga agagggcgcg gtgctgtgag agtgaagaca tgatttgctg tcgctattcc 240

atctgtggaa tttgttctga ctgtcagttt gtcgtttggt tactgtgaag cagccggcca 300

ggctattgct ctctgaataa actattagct ctaggtggtt tgctgcgtct gccacaatga 360

gcgtacttct ggggaaaagc tgctcgaac ttataaataa gcattatttt ttct 414

<210> 5536
<211> 460
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078b08b1

<400> 5536

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gctcctcccc agcttcctct actccccgag ctccctcgcc gccgcccct ccccg:cgtt 180
 cccctcctcc ccgtcgccct accaggcgcc cgcctcgccc gccgcgcccc cggctgctgg 240
 cctcgtcggc gctggcgggg tcggggggcg caggcccttc ttgatccgag cgcaccaaga 300
 gaagatagag atgtactctc ccgccttcta cgcgcctgc accgtcgggg gggatcgcca 360
 gctgcggggt caccacatg gcccgtcacc ccggtcgacc ctcgtaagtg ccacatgcag 420
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<210> 5537
 <211> 538
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 5537

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 ttctgtggag aaagaattct agttttgcga tatctcggca ctacagacgt tttgatgtgt 180
 atgaagaagc agaagctaata aaagctgctg gaaagtatga caatgcatca atcgatgaac 240
 aaatagattt ctacagaaat gagggcctaa cacattatc tcccgcgaag ctccctatca 300
 caagtgcgt cccggaaggc tgtgtgatca tcagagaaca cgttcccatc tcgaacctct 360
 tcacatgtct ttggttcaat gaagttgagc gcttcaccgt cagggatcaa atcagcttca 420
 gcaccgttcg ggacaaaata agggctaaag tcggctggat gccccaatg ttcttgact 480
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<210> 5538
 <211> 421
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316078b10b1
 <400> 5538

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gaccaggagc ggaagaaggg cgtcccgtgg acggaggagg agcaccggct gttcttgaag 120
 gggctgaaga agtacgggag aggcgactgg aggaacatct cgcggaacta cgtgacgagc 180
 cgcacgccga cgcaggtggc cagccacgcc cagaagtact tcatccggct cacctccggc 240
 ggcaaggaca acaagcgccg ctccagcatc cagcagatca ccaccgtcaa cgtgcccgac 300
 gacgacgacc gcggcagccc ctccgggtcc ccgccgtccg cgctcaccac cgtcgacacg 360
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 g 421

<210> 5539
 <211> 376
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316078c02b1
 <400> 5539

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 actgaggctg tagatcgacc accgccggcc gtggtcggtc gcttgtacat gcacacatac 180
 ctattgctcg aataaacgcg tgctcgaggc gagcacgctg ccattagcta atttagtgcc 240
 cgcgtgtctg aatgtacaat actagtacaa tgtgtagtat ttatctctgt ttattatggg 300
 cgatctgact gccaggttat ctaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaiaaaa 360
 aaaaaaaaaa aacacg 376

<210> 5540
 <211> 377
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316078c06b1
 <400> 5540

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 gccagtctcc tggttgattc cggcgccttg aaccaagatg tatctccagt actacatcaa 120
 cgagaagggc gtcaaggtgt acaccaccaa gaaggaatcc cctctcgggtg tgccgacgca 180

gtctgcccac ccagctcggtt tttccccgga tgacaagtac gcccgtcagc gttacctgtt 240
gaagaagagg tttggattgc tgccaacca acagccagca caaaagtact gaagcactgg 300
atgggtcctc ctaagagatc tgttttcttt gctgaatgct gtttggagtg tagattagct 360
ttgtgaagag agaatta 377

<210> 5541
<211> 469
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316078d03b1

<400> 5541

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accaagctca aaatgattta ttcattgatga tgcaggtcaa tgtattaaat gaattggtag 180
ctccagacac ttgcgcacaa agcgtagaaa ttttgtatga ggtaggggt ggagtagaca 240
tggaatttca agttccagtt cctttcaatg ttctaccagt tcaacagata gttcctcaga 300
gtggtggaga aggccaagct gagttagttc ttgattcttg tattggtagt tccactgtgc 360
atgaccgctc taagatgtct gctgagctat gcattgggtga atcttgact tctatgttac 420
agttgatgaa gaggtatctn cgattgcaac aactaatgca tcatggact 469

<210> 5542
<211> 394
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078d04b1

<400> 5542

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agagatacaa cccaagaag ctgacctatg agcagaggaa ggccagcctc gttgaaaggc 180
tcaacgccct caacaactct ggggtgccc ccatgacga tgaggacgac gacgactgaa 240
gagctctttg tccaccccag tgtagtcttg caacgtgcgt ttttgtaaa gtccgcact 300

ctgcacaatg acctgttcca ttgagttctg tttgtcctgc tggagttata gattgtgtta 360
tctgggttat gtgccgtgct ggcatttgga tctt 394

<210> 5543
<211> 288
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078d05b1

<400> 5543

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cccggacgcg cccatgttca tcccggcggc gttcaagaag gtggaggact actcgcccgga 180
gtggtgggag ctggtcaaga ccaccgcctg gttccgcgac cactgggtcc gccagcacca 240
gctctacgag gacctcgccg acgacgtcga cgtggacgac gttgtcgc 288

<210> 5544
<211> 94
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078d06b1

<400> 5544

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caatctatta tatgttgta aaaattatct tggt 94

<210> 5545
<211> 72
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078d08b1

<400> 5545

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acatgaaggc tc 72

<210> 5546
 <211> 429
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316078d10b1

<400> 5546

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tctgggttcgc aggttcctcg tcgatcggcg ggctgggctt gggcgatct tggagcgaga 180
cgcgaggcgg ctgcattctc cgatctgcc gtccggcgac tcagatctgt tacctatctg 240
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gctttttctc cgacgtgcac gtgtggattc ccggctttcc tgcttcgcgc gacgacggct 360
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aagagcgtg                                     429
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<210> 5547
 <211> 389
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316078d11b1

<400> 5547

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cgggtgcctgt attacaacat ccaaaccaac cctaattgtaa acatcctgga gaagtgtggg 180
agacagaagc tggaggtggt ggatttggac cataacacaa tcaccggtgt tgaaccaagc 240
taccagaggt tcaactgtct taaatccctt tatttgaggc atgtgagcat ttctgcctg 300
gatttgagcc ttctagtgc tgcttgcccc aagatcgagt cactagcact tgatgtcctt 360
gagattgtca cttctgattg gcagtctac                                     389
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<210> 5548
 <211> 409
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316078e04b1

<400> 5548

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gcaccgacaa ctggtcagcc tggatatggt caggcaggat aactcagcc accagctaca 180
aaccaccaa gttatgatca gtctgcgcca ccagcagctc aaagtggcta tgctgcacct 240
gctgcaaacc cacagcctgc ggttgcaaag ggcgtgtcac ctcagcctgc tgctgctgct 300
ggatacggcg ggcagtggac tgcctgactt ctgttccaaa gccctgctga cagcaagata 360
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<210> 5549

<211> 393

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078e05b1

<400> 5549

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cccaaccgac gaagggaagg cctttgcaga gagggagtca ctctatttca tggagacctc 180
tgcgctcgag tcgaccaatg ttgaggacgc ttttgcgag gtcttgaaac agatttaccg 240
catcgtgagc aagagggcgg tcgaggcggg tgaagactcg gccgctggcc ctggcaggg 300
tgagaagatc aacatgaagg acgatgtctc ggcggtgaag aaaggcgggt gctgctctag 360
ctgaggcgcc atgctgtatt ttttggtgct gag 393

<210> 5550

<211> 301

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078e06b1

<400> 5550

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 agtacatcaa gacgtggcgg cggcgctgggt tcgtgctcaa gcagggccgg ctcttctggt 240
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 g 301

<210> 5551
 <211> 298
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316078e07b1
 <400> 5551

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 aaaacaatgc cttgctcaag tgtcctgggtg acaggagcat gggtgattaa tgatttcaag 180
 catgcttctg gtaactgtca gcttacagtt tccccctat cgttagcata caatgttctc 240
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<210> 5552
 <211> 427
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316078e08b1
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 ctagctgtaa ataattgcct caccagaga atcaaaagga gatggcgtgt taagggtaga 180
 tgacaagagc tgtggtggtc aaatttccgt gtagcctatg gattcttgtg cttgtgtatg 240
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 gcgatagtcc ctgaacgatg gctgcctaata ttctgtggcc cgccatgaga tttttacatt 360
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ggaatat

427

<210> 5553
<211> 321
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078e11b1

<400> 5553

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tgaagacgct cgcgctcaag gggaggcaaa tgtcacacct gatacatgag tatcgtgtgga 180
cctggaaggt gaaatagata gaaaggggtg agcgtgtgtg tgcccagtgg gccacatgtg 240
gccaggcggtg tgtgtgcaag tataagagac ctaccctgta ctccgtgggg gatatgaaat 300
aagaaaagtc ttgttgccct c 321

<210> 5554
<211> 323
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078e12b1

<400> 5554

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tcccctacat gcgccatccc tgggagcatg tgctgggaat gggctctgggc gttgtgtttg 180
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<210> 5555
<211> 254
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078f02b1

<400> 5555

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tcaaaatact tcttagtcta gttcagagca ataaatTTTT tgtaaatttt aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaagaaaaa aaaaaaaaaa aattaaaaaa aaaaaatcaa 240
ataaaaaaga aaaa 254

<210> 5556

<211> 437

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078f03b1

<400> 5556

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gacatgcacc aagaccaaca tggatcatggt ttttggtgag atcaccacca aggccactgt 180
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tggccttgat gctgaccggt gcaagggtgct tgtcaacata gagcagcagt ctctgacat 300
tgcccagggt gtgcacggac attttaccaa gcgccctgag gatattgggtg ctgggtgacca 360
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<210> 5557

<211> 255

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078f04b1

<400> 5557

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tggggcagat ctttgaaagt tccaagttgg ttaatgttga tttttgctca tgcacacc 180

atcataggaa ttagtaggat cctctttgat ggatgtaagg actgcaccag gtttctttca 240
gcagcctggg gttgt 255

<210> 5558
<211> 410
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078f06b1

<400> 5558

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tgctccgccc cctccacctc ctacgacgcg cccactacg ccgccgagga gccctc.cccc 240
tacgccacc accagaagcc gcagcccgcg tacggcttcc gccccagaa cgagcagcag 300
cagcagcctt tctacggccg tgaggacgac gactccggct acgtatccaa gcccaagccc 360
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<210> 5559
<211> 490
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078f07b1

<400> 5559

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gaatcttgca cttctatgtt acagttgatg aagaggtatc tccgattggc aacaactaat 180
gcatcatgga ctgcgaacaa ttcttttgca gtctaccgt attattatgg ggctta.cttc 240
acttcgggtg tggcattgag tggcaccaca ggctatatta ctggtgatta tgtggg.gctt 300
ttggcttcat gttatgccc ttctcgtgga gccctgaggt atagatggat gaacggtcaa 360
accactgctt cgggtacgat cactaagatt ataccctatg ataggctagt ggtagctcca 420
gtgtctgtta caactaagac gacctcccaa ttgcttgcc aagcacctca aatcacatta 480

agtgaaaatg

490

<210> 5560
<211> 174
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078f10b1

<400> 5560

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tgaggttatt ctgggaagag agacagaaga cgtaaaagta gacatagatt tagc 174

<210> 5561
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078f11b1

<400> 5561

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gcatggccct gattcttggt atctacgatg agcccatgac tcctggccag tgcaatttgg 180
tcgtggagag gtcggcgac tacctggctg agcagggttt ctaagcccgc tctgatatgc 240
tgttattttg gtcgtctggg actaagtttg ctctactgtg ggctttgcat ccatctgctt 300
ggcgtaccgc atgatatatg cagtgaataa ttttagcttg gggtttgctg gttgggtgatg 360
tgtcgaaagg gaaaaatgga tttactatgc tttcttttta atgtttggca tcgcgtc 417

<210> 5562
<211> 215
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078f12b1

<400> 5562

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aaaaaaaaa aacaaaaaaaa aaaaaaaca aaagaaaggc caaaaaaaaaa aaaaaaaaag 120
actacaacac caacaactgg ccagcctgac acaaaaaaaaa aaaaaaaaaa acaaaa.aaca 180
aaatacaaac gggccggccc tctttaaggg tcaaa 215

<210> 5563
<211> 271
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316078g02b1
<400> 5563

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tcacaggatt actggaaget tattaagggtg gaaattagca agcaagctac agtcggtgca 120
aggatgtcca agtttactta ttactttacg aagatgatga ttcttgcatt ttgatt:gtgc 180
ttcaagggtg tattaatatg gggagaagag cagtccaaat ggcggatgga gtatgt:gacc 240
tgttgatgtt agtttcatth tcagaaggaa c 271

<210> 5564
<211> 326
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316078g07b1
<400> 5564

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gtccgcccgc gaagaagcga ggatgatcta ccgcaactgg tccctgctct cctccacggt 120
cgccatctgg ggcagcgtca ggcgcgacgg cctcgccggg atcttctct tccgcygcaa 180
ggagaaattg cagggctatc tttctcgca aggctagagg ctgaggcagc aggacagagc 240
catgatgggc aagaactagt gcagaccacg gctcactttc gacgtgtcaa catgtgaact 300
agacatggaa cgaagtatct ctatga 326

<210> 5565
<211> 226
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078g08b1

<400> 5565

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tacagtcggg gacggacgtc catgaggacc caatatctca ccacgatgca tgatacctga 180
atgttggttt atagtgaagg cgaaattaat atgaggggac gagcat 226

<210> 5566

<211> 342

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078h01b1

<400> 5566

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cgaggattgg agccgtgagg cagcaggtgg ccgtgggtcc agcgggcctg ccggcaaggg 180
cgcccaaggg ccagcgcgcg agggcggtgc gcccgctgtg cgcggcggag ccagcragga 240
agccagtgtc ggccttcgcg gcctcgtcgc cggtggcgcc tgtggaggag gaggagcgcg 300
ctgccgtgga ctacgaggcc ctggcgagg agctgggtgg cg 342

<210> 5567

<211> 299

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078h02b1

<400> 5567

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agaccaatat ggaggagacc caatggcttc acaagtagtt gtatgagtag aatagtacgt 120
gctaagcaac agtgggggag tgcaaccctc agatggcttg aataaaagag gcaggggcaa 180
aggcgaggct ccacacgagg gcagtgcgcc cgctgtgcgc ggtggagcca gttagggaagc 240
cagtgttagg ctacgaagtc tcctagtctg tggcgccat ggaagaagat gaagggggt 299

<210> 5568
<211> 441
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078h04b1

<400> 5568

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tgggagggct ctggatgagc tgctatgacg ccaaagaaac tttgtgctgg caggagtgtg 180
catagcaggt ggggtggaacg tgtgatgctg atggaccata ggcccaaata aagtggacaa 240
atgaacgatt aactataccc cactaagggt gttggacgat taagacagca ggacggtggt 300
catggaaagt cgaaatccga tggggagggg cgttacaacg gatctgacgt atcaactagc 360
ccgcagaaag gatggagctg tagtgtggga ccaacacaag gcaatctggg ggagtgccat 420
gacaagatga gtaagaggaa a 441

<210> 5569
<211> 386
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078h07b1

<400> 5569

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cgaggattgg agccgtgagg cagcaggtgg ccgtgggtcc agcgggctg ccggcaaagg 180
cgcccaaggg ccagcgcgcg agggcggtgc gcccgctgtg cgcggcggag ccagcgagga 240
agccagtgtc ggctccgcg gcctcgtcgc cggtggcgcc ggtggaggag gaggagcat 300
ctgccgtgga ctacgaggcc ctggcgcagg agctgggtgg cgcgtcgccg ctggagatca 360
tggtatcgtc gctcgacatg ttcggc 386

<210> 5570
<211> 399

<212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316078h08b1
 <400> 5570
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 gatagaagat gctgcatctg atgacatgca tttgtcgggtg tggataggag cctccatcag 120
 ggcattggggc gaacttaaag tccaagtgtc tgtaaaagaa acagacagga gacatcgtga 180
 aagggtctaaa attacgcagc tttcccccca cactgggtgg ggggttttgg agctgacccc 240
 ttaggaaaac aattcttcga ttgattgcta gatacgttat gagacggacc tgtttaaggg 300
 gccgatccat ttctgaagct aacacacttt aagtcgttga tttgcctgtt atttgaagac 360
 ctcgttgatg catctgctct ggttaataac agtgcattt 399

<210> 5571
 <211> 357
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316078h10b1
 <400> 5571
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 gatggcgatt tttttattag gatcgatgga tggatgggtg gatttgtaca ttctttttgt 120
 tgattaattc gtatagggtt tactttgttt cattcgtgta ggaatgaaat ttcgaaaaaa 180
 aaagagaata aaacatcaaa caataaaaaa aaattaaaaa aacaaaaaaa aaaaaaata 240
 ataaatttat aaaaaatta tattagaaaa atatatataa cttatggggg gggccttctt 300
 taggaatcca agttttttta ctctggtagg ggacatttta tttttttttt tgggtct 357

<210> 5572
 <211> 77
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316078h12b1
 <400> 5572
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agaaagtttt tggggtc

77

<210> 5573
<211> 317
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316079a01b1

<400> 5573

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cccgttcacc catggccgnc gnettgccc agttcttcaa gccggcggac gccttcctcc 120
cgcgccctgca cctcctcgcc gccggcgccg gcgcagaagc ctccgacggc gacgacggct 180
actaccgctg ctgccggacg cccgcggggc cggggaccgg ctgcctgggc caggcggtca 240
cctgcccccc ggcgcggtgg aagccgtgcg cgcagtccga cgcccgtctg tcggaagcgc 300
ctttttggcg tggaggt 317

<210> 5574
<211> 381
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079a03b1

<400> 5574

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catgatcaag gtgaagatcc agttgggtga gggatctgca gtcagggtcg caaagaccat 180
gtatgcta at gagggccttg gttcctttta caagggtttg tcagctggtt tactaaggca 240
agcgacctat acgacagctc gtcttgatg cttcagggtt ttgacaaaca aagcaattga 300
ggcaa atgat gggaagccat tgccacttgt tcacaaagct tttattggtc tgactgctgg 360
agcgattggc gcatgtgtgg g 381

<210> 5575
<211> 419
<212> DNA

<213> Triticum aestivum
 <223> Clone ID: uC-tsro9316079a04b1
 <400> 5575

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caacgtgaag aacgttgctt aaggatctga agcgtgggtt tgttgcattc aactacaagg  120
atgaccctgc caaggaggca gccaaactca cctaccaggt catcatcatg aaccaccctg  180
gtcagatcgg caacgggttac gccccagag ctggactgtc acaccttcca cattgctgtg  240
aagtttgcgt tgctggtgac taagatcgac aggcgatctg gtaaggagct ggaggtgctt  300
gccaaagtcc tgaagaacgg tgacgcttgt attgagaaga tgattccac acagcccatt  360
gttgtggaga ccttcggcac ctaccctgct attggtcggt tcgctgtgcg tgacatgag  419
  
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<210> 5576
 <211> 289
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316079a07b1
 <400> 5576

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tggttcgccc cgcggtcggt tcgagagaga ggtcgagtag ctagaataga aaagggtttc  120
ggtagagagg aagggcgatc catggcggac acggagaacc gatggttcgt gggcggtcct  180
ggctggcacc acctactaca ccactctcca gcaggctttt ttctcagttc ggcgagacct  240
tagacgcta gatcatccgc gacctccaga cggggagagt ccgtggctt   289
  
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<210> 5577
 <211> 485
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316079a08b1
 <400> 5577

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ctgctcacgc tggaggagaa gaaggtgccc taccagatga agctcatcga cgtcagcaac  120
  
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aagcccgact ggttcctgaa gatcaatcca gagggcaagg tgcccggtgta taacggtggt 180
gatggcaaat ggattgctga ttctgatgtg atcactcaag tcattgagga gaagtaccca 240
actccatcac ttgttactcc tcttgagtat gcatcagtgg gatcaaagat cttctccacc 300
ttcgtcacgt tcttgaagag caaggatgcc agcgatggct cggagaaggc gcttggtgac 360
gagctgcaag cactcgaaga gcacctaaag gcccatggac cctacatcaa cggggcgaac 420
atctccgccg tcgatctcag cctggctccg aagctctacc atctgcaggt cgccctggag 480
cactt 485

<210> 5578
<211> 510
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316079a09b1
<400> 5578

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gattgtcacg attcatctga tgcttactg gtcttgagtc caagttcggc cgacagtgta 180
tcacaggaca tgaatcttga ggcattctcca gcattgggtg gtcagtatga agcccccattg 240
ttaggaggat caatggcaaa agctccaagt acaccttgga tgcccttttc catgttatatt 300
gcagctatatt caaccaaact tcttcgcgag aaaatggaca tgatcaataa ctgttatgaa 360
gaattcaagg ccaagaaaat aagcagaatt gacctagtga agaggctgcg tctcatagtt 420
ggtgacagaa tgctggtcta cacaataatt cggctccaag ataaagtgcc ttcgatgggtg 480
aaagcggaag cagcaaatgc tccagtcaag 510

<210> 5579
<211> 297
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316079a10b1
<400> 5579

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 caagtgccac tctggggacg aaccccgctc caatgacaac gtgcgtgatg gggactacta 180
 gacggtgtac aagttcatgc cgggtgtcac caccggggg cccaagatca gcgacttcct 240
 ctgcaacgcc tagtaccaca acaaccttcc caggcaacgt gggcttaaacc tgcgact 297

<210> 5580
 <211> 75
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316079a11b1
 <400> 5580

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 gctaggtggc gagct 75

<210> 5581
 <211> 249
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316079a12b1
 <400> 5581

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 tccgacagga caccctngac gactagcaag agctgtctac atatagctcg cttccaagga 180
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 aaaggggga 249

<210> 5582
 <211> 75
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316079b01b1
 <400> 5582

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ttgtcgcttt gcact

75

<210> 5583
<211> 360
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079b02b1

<400> 5583

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ggatttttatt tattcatagc gttgagttac ctaactagct accccaacct tgtgcattgc 180
tcgagtgcct ttgatgcgga ctcatacatt ctgagttatg acattatatg aaacaatttt 240
acatgccaaa aaaaaagagc tatggatcct tacagaaaaa aaaaaaaaaa aagaaaaaaa 300
aaaaattact gaaactgtta caaatgtata agcatacgcc taccaccgaa agtcagacag 360

<210> 5584
<211> 385
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079b05b1

<400> 5584

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tgcatatctc gatggagtgc gagaacgggc acgttgccgc caacggcgat ggctgtgcg 180
tggcacagcc ggcgcgggccc gaccgctca actgggggaa ggccgaggag gagctgtccg 240
gaagccactt ggatgcggtg aagcggatgg tccaggagta cccgaaggcc ggtgggtgacc 300
atggagggcg ccagcctgac cattgccatg gtcgccgcyg tggctgccgg cagcgacacc 360
aggggtggagc tcgacgagtt cgctc 385

<210> 5585
<211> 372
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079b06b1

<400> 5585

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acacggagct tgcgggcttc cgggaacggt acacgagctc ttagctgggt cttcccgccg 180
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gcctcttcgc gtgccgcagc gccgtcagcg ctcgagccat gaacatgcgg gagacgtacc 360
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<210> 5586

<211> 502

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316079b07b1

<400> 5586

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catcactgta cggatgtac actactgat gagcctcgat catcagacca gatggatgcc 180
ttatattgaa taactcatcc ttccttcacg tcctaaacat tacagatacg tatcttgtgt 240
tagggaataa aacttttatg taatgtaagc caggaggctg ccaaacggcg ccctagcagt 300
ttgtgtacga gcgtactgt ggccgagcga gccatcacat ggtttgtcat gctaataagc 360
acaggggaact gaatgacgac cttatattga ttgatgtgtg tgtgtgtgcg tgcgcgcgtg 420
agtgtgccta gtgggggtga tctgtatatg tatctatng tactgaataa attgtctcaa 480
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<210> 5587

<211> 503

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079b08b1

<400> 5587

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ctccccagga ctactacagt tcattctaca ccaattcctc caaaagatca gaagtcttcc 180
caggttcccc aaaggattcc aacaggtaga ccaggaagag tggttggccc ggtaatacca 240
tttgagaatt catgtgctat ggatccttac agtcaacgaa gggtaggcaag gaatccagta 300
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gagagagagt tacagcagga gcttgaaaaa gaccgcatgc agtaccaacc gatgcagcgt 420
ttcatggatg ccaagatggg ctcccctgac ttgaggtcta ccttctatta catgccaaag 480
ggtgtcccaa aagcagatgt agc 503

<210> 5588

<211> 479

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079b09b1

<400> 5588

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaggg ggggggggcta aggggggaaa aggaaatagg aaaaaaagat aagaaggaat 180
taatatttta atggggggggg gggtttttgg gggttaaagg ttttgtttgg ggggggtggga 240
cggtttaatt ttttttttgg gggcacttaa tttgatattg gggggggggg ttttaaaacg 300
gggggtgggg gaaaacgggg gggtttccaa ttttttttgt tttgaggaaa ttgtcctttt 360
tggggggggg gaattcggga gggggcgga attgaggggt ttttaaaaag tggggccacc 420
ttgttgggga agggggattg ccttgggggt ggtcttttgg gggggggggg ggggggggt 479

<210> 5589

<211> 473

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079b10b1

<400> 5589

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 ggcggaggcc aaggcgctgg gcgcgccggt gaagagcgcc gccggcggca agctgctgga 180
 gaacgacgag gtggtcagga tcttcaccac caggagcaag cctcacctcg tccagacctt 240
 caagtactac aaggagctgc acggcaagca catcgaggag gatctgggaa gcgagcaggc 300
 tctgaggag accgtgcagt gcctggcgac gccggagagg tacttcagcc aggtgatggc 360
 ggcggcgctg aaggagggcg cggaccacca ctggaaggag gccctgtacc ggctgcccgt 420
 gacgcggtcg gacgtggaca tggacggcat caaggtgggc taccatgagc agt 473

<210> 5590

<211> 262

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079b11b1

<400> 5590

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 ttattttcaa agccgaaaca cctttttcgg ttttagctta cgtgatttaa gactttcttg 120
 caaatcttga aggagtgcga gaacgggcac gttggcccca acggcgatgg cctgtgctg 180
 ggacaaacag ggcgggccga accgctcaaa cggggaaaag gcgtcaaaga aatttgcgga 240
 aaccacctgg atgcaaataa ac 262

<210> 5591

<211> 333

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316079b12b1

<400> 5591

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ccgtcaccag cggccacacg ctcgtcgcca aggtgctcag ctccaagacc gtccttcaga 180
aggcccgcgc cgctggcggc cccggcccag ccgccaagcc caccaggatc gccgagtgcc 240
tcctcggcga cgagaccggc tgcgtccctt tcacccgcn gcaacgacca gggatgatgtt 300
ttgaagcctg gcaacactgt cattatccgc aat 333

<210> 5592
<211> 432
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316079c02b1
<400> 5592

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ctatgtgtct ctctgcctat agctgtacc tccctcta tgggtagtac gtacttcagt 120
agcagctagc tggctagaga tcagcgacgt tccttcggc catggcgagc accacgcga 180
aggaggagg gccggacaag cagcagcagc agggggggcac caagctctac tccaggatgc 240
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ccggctccgt gcccttcctc tgggagtcgc agccggggcac acccaagagt ttgtcctccg 360
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<210> 5593
<211> 262
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316079c03b1
<400> 5593

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taggatagca agagcagtat ggcaaccggc agatccaccg agcttaatcg atctcctgga 180
gagaggcgcc ggtggccgtg gcacccccag cggcgggcgc gacgtcctcg gccgtgaact 240
tgcccttggc cttgtcagca gc 262

<210> 5594
 <211> 422
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316079c04b1

<400> 5594

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atccggggagt acacaaacac ggtagatgat ttggtgaagg acaggataga atcgcagaag 120
gaagaaaaag cttaagagaa cgaatagaaa gaactagttg cgcagcagaa catgtacgct 180
caattgcttc ctctggcctt gcctgctccg cccggcatga agggcggtcc accttcgatg 240
ggcggaatgg gcatgccgcc gatgggcggg atgggtatgc ctccgatggg tcttgggtcca 300
atgccagcat acgggatgcc tccaatggga agctactgag tcaaccaacc tctgttgtat 360
gaatttgaag agtacagatg atgtgaagta tttccagatg acgcaaaggg agggagacaa 420
tc 422

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<210> 5595
 <211> 314
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316079c05b1

<400> 5595

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tttgatgtag tccatattct gttgtcgtaa gtctagtaga agctggtgaa atttatttaa 180
agatcaattt cagtgggaaa ttaggacgat tgatgaaata agaaccaac tataattata 240
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agaataggat aagg 314

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 <211> 275
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316079c06b1

<400> 5596

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gtcggatgtc catagagtca aattgtcacg caggagctgc atgattaaag tgctgt:cctt 180
gtaggattcc tcgcctaagc tgtccagctc tgatatagcc tcatcaaagg cttgttttgc 240
aagggttcag gcgcggtcag gggagttcac gaaaa 275

<210> 5597

<211> 442

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079c08b1

<400> 5597

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tcaagcagaa gaacccaag aacaagtccg tcgccgccgt cggcaaagcg gccggt:gaga 180
ggtggaagag cttgagcgaa tcggagaagg cccctacgt ggccaaggcc aacaag:ctca 240
agggcgagta caacaaggcc attgccgect acaacaaggg cgagagcgct gctgct:gctg 300
ccccaaagaa ggcggtggcc aaggaggtgg aggaggaaga tgagaaggag tccgac:aagt 360
ccaagtcgga gatcaatgac gacgacgatg atgagggtag cgatgaggac gaggac:gacg 420
accagtgaag aagacgcac tt 442

<210> 5598

<211> 422

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079c09b1

<400> 5598

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gcaaagtgcc gaggggcccc ttgaaagaca agaagaacta gaaacgagtg ataccggtgtg 180
ccatcggtat ggaatgatgg cgactgggtc gtggctgccc ttgtggtatg agcacc'aaat 240
ttctcaccag ttgtcttgtg ttatgtgtaa gactgttttc gttgtttgcg actttgatga 300
gagtagcctg ggtagcttac ccttcacagt aatgcagagg cagcacttgt ttcgctgtac 360
cgctgtttga tttttgatct gttaaggtgt cgcattggga ccggttctag acgctgattt 420
tg 422

<210> 5599
<211> 428
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316079c10b1
<400> 5599

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tggaagaaggcc taccatgaaa ctgacgggtg atgctgagac cgatgagggt atcggagcag 180
ccatgtgtgg accagatgca gctgcaatta tgcagggcat tgttgatgcg ctcaaggctg 240
gagctaccaa ggcgaccttc gacagcaccg tcggcatcca cccttctgtg gaggatgagt 300
ttgtgacgat gcggaccttg accaggcgcg tgagcccgcc atccaagcca aagacc'aaact 360
tgtaagcaag ttgcctgcaa tgttttggac cataattata ccggtgtgga cacggg'aaact 420
gtagacac 428

<210> 5600
<211> 400
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
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<400> 5600

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aggagggaga gggacgcgga ggccggagctc aacctgccgc cgggcttccg cttccacccc 180
accgacgacg agctcgtgga gcactacctg tgccgcaagg cggccggcca gcgcctgcc 240
gtgcccataca tcgccgaggt cgacctctac cgcttcgacc cgtgggcgct ccccgaccgc 300
gccctcttcg gcacccgcga gtggtacttc ttcacccgc gcgaccgcaa gtaccccaac 360
ggnttccgcc ccaaccgcgc cgnccggcaac ggatactgga 400

<210> 5601
<211> 401
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316079d02b1
<400> 5601

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gaggttgatg tgtgctgctc agatggaacc tttgccaggg ccgctgttcc cagcgttgca 180
tcaactggtg tttatgaagc tttggaactg agggatggtg gatctgacta cttgggaaaag 240
ggtgtatcca aggctgttga caatgtgaac tcgattatcg cgccagcttt gattggcaag 300
gaccctacag ctcaaactga gctcgacaac tatatggttc agcagcttga tggaaccaaa 360
aacgaatggg gttggtgcaa gcagaagctt ggtgctaata c 401

<210> 5602
<211> 141
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316079d03b1
<400> 5602

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gccattgttt ttttgtggtg t 141

<210> 5603
<211> 457
<212> DNA

<213> *Triticum aestivum*
 <223> unsure at all n locations
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 <400> 5603
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 ttctctgttt atcttcgtac cagcatctat actgctactt attcctgtgg aatttcttcg 180
 ctgggtcatc atagctgggtg ctgggtgggtgc atcatcttgg ttcattctttt taaacttgaa 240
 ggaatgcacc naaggagctg atatgatggc tctgatecga agtgcacag tgcctgcagtt 300
 tgctctggca ctgttcatca aagttttctt ttttgctga gancatttcn tgggtgcttc 360
 aggtgagctg gatgttttct ttgtgtcccc gtcgttctgt tctgccattc atcttttctg 420
 aagaccaggc agtggactag tttcaccta catacat 457

<210> 5604
 <211> 459
 <212> DNA
 <213> *Triticum aestivum*
 <223> unsure at all n locations
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 <400> 5604
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 ggagacgggc ctgcacaagc tccgcggggc cgccgccacc caaccctcg ccatcaacac 180
 agctgcaggg gaggcgatta agcagtcgcc gtcgatgccg acgaccccgga ccacgccggt 240
 gacgccgtcg tcgtccacgc cgccgcgcgg cggcagcgtg tggcggagcg ttttccaccc 300
 cgggagcaac ctggccacca agagcctcgg cgccaacctc ttcgaccggc cgcagcccaa 360
 ctccccacc gtctacgact ggctntacag cgacgagacg aggacaagga gcaaccaccg 420
 cttaataaga gccgtcggcc agagaaactg aggcaggggt 459

<210> 5605
 <211> 428
 <212> DNA

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ggcctacttg gtgtgcaatt tttgcacac 329

<210> 5608
<211> 184
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001a04b2

<400> 5608

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gaccccgccc tctgagcagc ccagttacga acatgctgca gaaggatggc cgcagggcag 120
ccctaagcac gcctgagtat gcccgcgccc cacaagaaca ccgtatcgca cccaactaa 180
ctgc 184

<210> 5609
<211> 465
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001a05b2

<400> 5609

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tgaagaaagc tttggcacgg gttctgacca catccgtgaa aaggatggta tttgggctgt 120
tctagcttgg ctatctattc tagcttacia gaacaaggac aaccttggag gagataagct 180
tgttacgggt gaagacattg ttcttcagca ctgggctacg tatggtcgcc attattatac 240
acgatatgac tatgagaatg ttgatgcaga agctgccaag gaacttatgg ctaacctagt 300
caagatgcag tcgcacctgt ctgacgttaa caagtcgac aaggagatcc agcctactgt 360
tgcagatgtg gtatcggtct atgagtttga gtacaaggac cctgctgatg gttctgtctt 420
caagcatcag ggtatccggt ttctttttga gatggtttcc gactg 465

<210> 5610
<211> 54
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001a07b2

<400> 5610

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<210> 5611

<211> 296

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001a12b2

<400> 5611

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gcgttcgccg gcgggaaggt gtgggtggtc tacaggttct acggggacgc ggagctcgac 180

gatgtgcact cctacgaccc ggccaccggc gagggggccg tggtcgacac caccggcgac 240

aagcccaccc cgcggagcgt gctctgcgcc gccggggctc ggaagcacgt ggtggt: 296

<210> 5612

<211> 204

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001b01b2

<400> 5612

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaacaa aaaaaaiaaaa 180

aaaaacatgg gggggccctt ttaa 204

<210> 5613

<211> 461

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001b02b2

<400> 5613

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 ggcgcggcgt acccgcgcat gtccccggag gacctcgcgc cgccgccgcc gccggtcgtg 180
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 gcgcgcaaga ccgagggcat cgccggcgac gtctggcagc acttgaaaac tgggcctagc 360
 attacggatg ctgcaatggg gaggatcgct caggtatcca aggtcatatc ggaagcggga 420
 tacgacaaga tattccagca gacgtttgag tgcttgctg a 461

<210> 5614
 <211> 481
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316001b04b2
 <400> 5614

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 ccgcgcccgc gccgtggacg gcgtcggccc cgtggcatgg gacaacaacg tggccagggt 180
 tgcgaggac tgggcggcgc agcgcgccgg cgattgccgg ctgcagcact ccggccggcc 240
 gttcggcgag aacatcttct ggggttcggg gcagtcgtgg acggccgccg acgcgctgaa 300
 gctgtgggtg gacgagaagc agaactacca tcttgacagc aacacctgcg acgccggcaa 360
 ggtgtgcggg cactacacgc aggtggtgtg gcgcaagtcg acccgcatcg gctgcgcgcg 420
 cgtggtctgc acggtgaacc ggtgcgtttt catcacctgc aactacaatc ccccgcgcaa 480
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<210> 5615
 <211> 251
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316001b06b2
 <400> 5615

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caaaagaaat agcgctccaa attgattgcg ctggaaaaaa ctgaatgccc gactacaatc 180
gatggtagaa catcagaacc gagatgccag cctgacgggg aacgatagaa gaactgtcgc 240
atccgcgtgg c 251

<210> 5616
<211> 472
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316001b11b2
<400> 5616

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gccatactc cggccccgcc tccgcccgtt cgccctctcc gtctccccct cgggccccga 180
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cacctcgccg gagtcgctcg aggcgttccg catgctcacc ccggcctacc gcgagaaggt 420
ggagtccgag ccgggggtacc tcgagcgcct cttcatcatg cgcgagacgc cc 472

<210> 5617
<211> 319
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316001c01b2
<400> 5617

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accagcaggc aacccaaagg gcggaacacc aacaggaaac ggcgcaaccg gcgccgaaag 180
cgcagccgag gaaagccaac aaaacaacgg caccgtccga ctcagcaggg taatgcgcga 240

gaaccccagg cagtgggttg aacatgccag agcttggaag cacaagctac acgagacacg 300
gaggagaaaag cggaaggag 319

<210> 5618
<211> 468
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001c02b2

<400> 5618

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gtgctcgttc gcgccgtcgt gccaggtgaa gaagaagggt cagcgcagcg ccgaggacaa 240
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gcttgttcag cagcagcgga agcaggaagc ttcgacggcg gagcaagtgg ccgacaggaa 420
gaaccttggt gagcagatgg cggcgacgct gacgaggac cccgggtt 468

<210> 5619
<211> 260
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001c03b2

<400> 5619

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catttgtttt accctgaacg atgtatgact gtcgcagttc tgtcatttgc aaaactataa 180
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acttattatt ctttcactct 260

<210> 5620
<211> 457
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001c04b2

<400> 5620

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ggcgcccctc ccgattgggt tcgccgtggt catgggtccac ctggccacca tccccatcac 180

cggcaccggc atcaaccggg ccgggagcct cggggccgcc gacatctaca acaaggacaa 240

ggcctgggat gatcagtga tcttctgggt cggcccatg aatcggcgcg gcgacgcg 300

ccttctacca ccagtacatc ctgaggccg gcgccatcaa ggccctcggc tccttcagga 360

gcaacgcgta acaagttatc atccatgtga cccgcacgca agattgaagc aatggcgacc 420

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<210> 5621

<211> 195

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001c06b2

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gaaataaaat tattacatgg tcaaaaaaaaa taaagataat caataacatt gacttccttt 180

tcttggtgaa caact 195

<210> 5622

<211> 417

<212> DNA

<213> Triticum aestivum

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<400> 5622

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gggaagatgt accctgatct gacagagcag ggcagcgccg ccgcccaggt cgccgc:cgctg 180
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 tccggcgagg gctgcagctg cggcgacaac tgcaagtgca acccctgcaa cagtggaggt 300
 ggatgcacta cttcgtgcct acgagagaag gtgtgagagt atacttgaat aacgag:cgctg 360
 tgatcctgag gagtcgagca aggggtgcgtg tgcgtgagat ttggttgctt gctctcc 417

<210> 5623
 <211> 452
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316001d01b2

<400> 5623

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 acaagttgga catcgccatc gacctcgga acccgctcct caaccgcacc gtcgacggct 180
 tcctcaagat cggcgccgtc ggcgcctgca ggggtggcca cgaggacgcc ttcgactgcc 240
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 agggcgcata ttgggggtgct gctgctggag tgtatgtagg catggagtat ggagtggaaa 360
 gggtcctggg tcagtatgac tgagaaaatg cgttgattgg aggcatacaca agcggc:cccc 420
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<210> 5624
 <211> 265
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316001d02b2

<400> 5624

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 cgaacgcaaa ggggggcggc cggtcaagag gcccaggt aacccccgcg accaggccga 180
 actcatagct ctttaatagg gccccaaaa gcaaaacaac gggccggcct taaacaacga 240

ttggccggga aaaacccggg ggaac

265

<210> 5625
<211> 310
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001d03b2

<400> 5625

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ggttttatgc gagaactggc ggtgagccgc agtatgcata ttgccgtaga ccttgcccttc 120
gctgcttgct acagtagtaa ataggcgat gtatatattg atgatgtttg ggtacctgta 180
cgaattgatg caattcagca attgttactt ttagcagcag caaccttttc gcttaaaaaa 240
aaaaatccaa aaggaaaaaa tataaaaaga caacagaaca aataaatata aaaaatataa 300
taaataataag 310

<210> 5626
<211> 235
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001d05b2

<400> 5626

tttctcacgc gtccgcccac gcgtccgccc acgcgtccgg ctgactgaag cataagtgtc 60
ttccagcagt gttttgtcct aaggaattat ctgttttttg cagtttagac gatactttgg 120
attcagttct gctggctggt tagtcaaggg tatctttgta cttggtgcca tggatgtttt 180
tgttatgtta ttcccccta aaaaaaaaaa ataataaaat ataacaaata ataag 235

<210> 5627
<211> 55
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001d07b2

<400> 5627

cccgcaactt ctttttccga attaccggtt ccaaccacgc gtatttagac cgcga 55

<210> 5628
 <211> 417
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316001d08b2

<400> 5628

gctttccaag ctagcacgcc acgcgtgaca agtgggtcttt catgggagct tcatgcaata 60
 tcgaagcaat ggcgacctgc gctgtgceca ttcagagaga aatgcgcttt tgcaacttct 120
 caacagatca gctggcccgc actggacgtg ttatttatgt gtcggcagca gcatatgctt 180
 ccagcgagta cgtggatggc cttcatgtgc ccggccctgc gtgccgggac ttgcaattcg 240
 gtccatggga tcgctgtgtc tcaattaggc cgcattgctt ttcctactgt atttaaatat 300
 ggcgtccata tgatcgaacc atcgtcagca cttttctgta tgagctatga attcaccaag 360
 caagtgactc attccttgat acctaacca cagtattctg gcacctttaa ctgctct 417

<210> 5629
 <211> 591
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316001d09b2

<400> 5629

gaactcgccg gcggttttgt ccgtattccc gtttgaccca cgcgttttgg ggttctcact 60
 gggaagtata gcaaaggga tatacttcgc tgaatgtttg tttgccttac ataactacaa 120
 gaacctggca aacaggtctc tggttgacga cacgcttaga aaagtgaacg ggctcaagcc 180
 aatcgcttcg gagcttggcg tctcgatggc gcagctgggt atcgcttggg gcgcgtcgaa 240
 cccaacgtg tcgtctgtga tcaactggagc caccaaagag agccagatcg tcgagaacat 300
 gaaggccctg gaggtcgtcc cgctgctgac ccagaggtc ctggagaaga tcgagcggt 360
 cgtccagagc aagccgaagc gcctcgagtc gtacagatga agcggtcggt cggtcggctt 420
 cgtcagctgt gcagcgtgtg ccccgccgcc gcccggtggg attttttcag tacccggttc 480
 ttcgaaaaac catataccga acgtcctgtg tggtcggcgt gccagcggg cgaaacattt 540
 tgtcgagtgg acctgatgat gaacggtggg cgtacagaca atgctttaat g 591

<210> 5630
 <211> 431
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316001d10b2

 <400> 5630

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 tgctgaagaa atgaaggatg ctccaaggg tgaatctgga gatggacagt aaacactgtc 120
 tatgtgcca gaaacttgct tttctcgctt gttcagtga gattgtaatg tcgtcgtggt 180
 tgctggtaat tggaggctcc aatttgctgt gtgataggga agcttgtagc tgccttgctt 240
 gctcggcggc ctgattatcg ggctgcactg gttattgctt cttgttgaac ctttgtgtta 300
 cttttggtgg tatctagaaa ttttctgctg ctcttgtttg tgacccctg cctttgtatt 360
 cactagatga ccagttgcgc caatggcgca aaggccgaga gtaagccatg tttttgaaga 420
 atgtacattt a 431

<210> 5631
 <211> 474
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316001e01b2

 <400> 5631

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 ctactggaa ggcggcctgt gctggctctg tttttatcaa aagaacttag tgaactgtgt 180
 acaggagatg aaatcagaag ggaggcagat tgaggctctg gatactacac tccggagcac 240
 agggatatgaa gagcagatgt tgaatgtgct cgaagccact cgcaagtgtg tacactataa 300
 tcctttactg aggccaacca tacaggagat agtgttcttt tctgaaagt tagacgcca 360
 gcttgagaca cgaaattcag ttcagataga aagaggttag acttgattat ttggaagtca 420
 attgcacatg gcagacgtag ctttcaatta actagtactg ttaaatttat actt 474

<210> 5632

5632 5633 5634

<211> 441
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001e02b2

<400> 5632

aggcacctgt taccggcaca ccccggtact gaccacgcg catttttttac cacaccaaac 60
cctagcctcc tcctgcgcgc gccgcgcgcg ccgccgccat gtcagggagg aagaagaccc 120
gcgagcccaa ggaggagaac gtgacgctcg gccccgccga ccgcgagggg gagcacgtct 180
tcggcgctcg gcacatcttc gctcccatca acgacacctt catccatgtc acggatctgc 240
ccgggagggg gacgctcgac cgcaacaccg gcggcatgaa ggacaaagct gatcgagatg 300
aatcatcccc taatgcagct atgcttgcaa ctcaggatgc cgctgtaaga cgcaagggagc 360
ttggaatcac tgctctgcac attaagctcc gtgctactgg tggaaacaag acaaaaactc 420
caggtcctgg agcacaagct g 441

<210> 5633
<211> 345
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001e04b2

<400> 5633

ctcccatgct tccaaccagg ggggttttta caaatggttt tttatcctcc gtcctgccc 60
tgtgtgtcgg caacatgtgc agcgtatata ggaatacatg cattccttac aatcgagtgc 120
tctgtcctag aaggaattaa ttatcgcaaa tactctgtct tcatacaacg taaaaaggga 180
gaggagagag agcaagcgga tctgtacaca ccgagtactc caagcaagcg gatctgtaca 240
caccgcgcac tccaagcaag tggatctgta catctgacac atgatcttac attctgcgga 300
aaatgatgag tggaaacgcc tgatcatagaa tgaatccaat acatt 345

<210> 5634
<211> 308
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001e07b2

<400> 5634

gtccgaccac tccttcgacg acgggaagct tgtgtcctcaag gttaccgatt accgcaagtg 60

cctgaagttt aagactgata aagctcagga cgcataagaag atggagaagc ttaacaacat 120

cttttttcgtt ctcatgacta gtggacctga tgctgatata cgcgagggtt cagggaagga 180

acacgcggag cagtagctat caaagaaggg acgggtgcagg aggcagtagt atcatgttct 240

gggtttcttt cagaatgata acaactggga gtgggtgggtg gacattctga tcgactcctg 300

ttagccat 308

<210> 5635

<211> 377

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316001e09b2

<400> 5635

tgatcgcgag cggcgccctt actccttttg gtgtttattt catgcagata aatcaccatt 60

tcagnccacg gtgcactgct taaataatta gcacaccgtg cgtgataatc atctccctct 120

ccttctcttc tcaccattac atacatacat atactaatta atcaacaacg cacacagcaa 180

ttaacacaca tacgaaaacg gaggctatga cctatacgtg cgtacgtaca aagtgcccg 240

atatgcgctt gtgtatgcac gtacatatgt acaggctgct ggtatatata aggaaagtgt 300

atactgcata tagttggata gtcggtcggc ggtggcgaag gcgatttttg tagatggata 360

gggtggctac attcttt 377

<210> 5636

<211> 357

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsro9316001e11b2

<400> 5636

tgttcttcca cgcgtgcgc caccgctccg cccacgcgtc ctgccacgcg tcctccggag 60

ctcgcaccac gcgccccccc tccccccct gtgatcgctc accgtggtct cgccgcggg 120

ccgaccctt caccgggatt ggattcggag cccagctcat ccgccggcag ccgagccatg 180

ggcacggatg tggatgctcc cgcagttgtg actgacaagg aggtggttgc tgagaacatg 240
 ttgggtgaca agaaagtcac agtagtattt gttcttggcg gtccctggaag tggaaagggc 300
 acacagtgtt ccaacattgc tgaacacttt ggattcacc cttcttagggc tggagat 357

<210> 5637
 <211> 484
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316001e12b2
 <400> 5637

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 gtgctgcaac agctttttctc ttcaaagaaa tagctcgaat tcataacctt cccgtccagg 120
 aatttggtgt aaggaatgat atgggttgtg gctcaactat cgggtcccata cttgcttctg 180
 gtgttggcat acggactgtt gattgtggta ttcctcagct ttccatgcac agcgttcggg 240
 aaatgtgtgg caaagaagac atagacacga catacaagca cttcaaagct ttcttcgaga 300
 tgttctcgga cattgaccag aaactgaatg tagattttta ggtcttgaca tctgaatgtg 360
 cagcctctta ataatgtatg gatattcagc tcgggtctctg aataatgtct tgatcattgt 420
 atcagctttt gttgcatatt caatctgggt aagacaagag cactgggtct gaaatcattt 480
 tcca 484

<210> 5638
 <211> 188
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316001f01b2
 <400> 5638

ttctgctccg cacacgggac agcggcggtg ccgctgaatc aggagcccac cgacgccggg 60
 gtggacgccg ggcgcgcgtt ccgcggtgtg cggaagcggc cttggggcaa gtacgcggcg 120
 gagatccggg actcgacgcg gaacggcggtg aggggtgtgt tgggcacgtt cgagagcccg 180
 gaggcgga 188

<210> 5639
 <211> 461
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316001f02b2

 <400> 5639

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 gaggcggcgt gcccggagtg ggcgggtggtg gaggtgcagg gcgtgctgca gccgcagccc 120
 tgctttctccg gccgcataca gggcctccac atcggccgcc tttgctccac ctacttcgtc 180
 ccgtcttcca agggcgggta caccttcacc gcgggggtacc atgagctcgc cggctcgaaa 240
 gtgactctca agaagcccct tctggtgctg aggaagaaga agaacgacaa ggtgaacccc 300
 ggcgagctcg gacaagggtg acaggcgggcg gcggcggtg acgtggagct ggaggtgatt 360
 ggcacatccc ggcacaagaa cctcttcaag gaccgtccca aggcccctat tcaaagccgg 420
 tgccgtatga aaagaaggcc atgcctgaag cggcgacccc a 461

<210> 5640
 <211> 427
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316001f04b2

 <400> 5640

 tttctttatt tcaactggaa atagatagtt catctggcaa ctttgggtgca acattttctt 60
 tccatagatg tgcacatgat gacttccatt tctcgttttg gttaggagt cccacgatgg 120
 gatggttaca aacttaaagt ccaagtgact ataaaagaaa caacaaaaac atagtataaat 180
 gtataaaatt acgcagcttt cccccacca ctggcggggg gttttggagc tgacctctta 240
 ggaaaacaat tcttcgattg tttgctagat acgttatgag acggacctgt ttaaggggcc 300
 gttccatttc tgaagctaac aaactttaag tcgttgattt gcctgcgatt tgaagacgtc 360
 gtagctgcat cctgcttttg ttatttcagt gcatctgcgg ctgtttttat tgcaacaaaa 420
 aataaaa 427

<210> 5641
 <211> 475

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316001f05b2

 <400> 5641

 accttttgaa ccctaccac ctgagcgtaa actaaggga cttttcaaac tactaccttc 60
 aaccctcca ccaaccactg tgcatacacc ctcccatgat ccataaacc tcggaccca 120
 aaacagtcaa cgccaggga ggcacctgcg ccgcccgcac cccgaacgtg ctccagggt 180
 tgcacgaacc agcaaatacg caaaacctac acatgccgcg gcacaaaaga ccggcgctcg 240
 cgacaggagg agagactttc gaagccgaaa ctcgagagct ccgcgcttg gattgtctc 300
 ggcagtgcg cagggtagcg caagcagcta aggatgctcg gacgaaaca agcaacaacc 360
 agaacaggcg gcataaacca cccggcaaga gaagaaaaag gcccacaagg gaagaaccta 420
 cccaaaagac gccatgccg aaggcaaagg gccccgaag cggaacat tcca 475

<210> 5642
 <211> 316
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316001f06b2

 <400> 5642

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 agaccttcg gatcaagcag aagctggcca agaagcagcg ccagaaccgc cccatccct 120
 actggatccg catgaggacc gacaacacca tcaggtacaa cgccaagcg aggactggc 180
 gccgcaccaa gtcggattc taatccgggg atgacggcga tgacaccgt tgctgcgac 240
 gggagaaggg tctaggttac ctagggttta tgacgtctcg ctgtttttgc acgctagcaa 300
 gtgactccg gatgcc 316

<210> 5643
 <211> 219
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316001f07b2

 <400> 5643

tcttccacgc gtccgggaac attggaggat atgacagcat agcgcattgct tgatcattac 60
 cttcccagaa gagctcaacg gtgtatgctt accaccagaa gtcattgccca ttcataatttc 120
 ctccctgatt gatgtgtaaa ctccagagctg taatggagaa atgaacacta tgtgagattt 180
 cagatttata tgctgtacaa gtggccttac cctgctgat 219

<210> 5644
 <211> 206
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316001f10b2

<400> 5644

tctttcggca tgctgaggct gccggaggaa gagcagcaca agggatatct cagagctctg 60
 taccaaattc tccgccagat gctgctcccg gcatactgat tcgaacttcc aacttcacaa 120
 acgattctat atgatgcctt gtggcgccga ttgcctctaa aaaaaaata aaaaaaata 180
 aaaattaaat aaaaataaaa aataat 206

<210> 5645
 <211> 437
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316001f12b2

<400> 5645

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 tgcaaccttc tcaaattctca agattccaac tggtaagga agtgaagaac aaggacagaa 180
 ggacatggat gccttaagtt caatgctcga caaggcgaaa gacaaggatga aaagcaaccc 240
 tgatgtgatg gagaaagtca attcggctct cgacaagggtt aagaaccacc cagaagtcac 300
 ggagaaagtt gctgagggtt tacatctggg aaacgtgaa tccaaagaga aagaacccga 360
 ggccgaggac aagacaaaag aaggcgagac ctttgccgac aagaccaag actcaaacat 420
 cctagaccag tccgtgg 437

<210> 5646
 <211> 503
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316001g03b2

 <400> 5646

 ccacagcgtt cttttttgct ttactgatgg ctgctcttaa atctggaaat gcacccc:caaa 60
 tgggtttcggg gtatgcaccc caaatgggtc ccgggaatgc cagtgtgcta aatgctaata 120
 gttctaatagc ccctaatagga agcttgccct cccatagctg gcctaatacta ggttatcaga 180
 accctgcatc tatttcagca gcagcaccac aaaatgggtg cgccaaggct gggaacaaca 240
 atcaggactt cttttctggg aacttcgggt ttgggttcgcc cggcatgcc a gcaaatgggt 300
 ccacaaccgc aggtgctaac aagagcgcac acaccctac cttttgtacc ctgccctttt 360
 aatcaagcat agagtacgat ttttcctcat taacgcaagg aatgttttcg aagcgattaa 420
 tggccttgaaa tactcggaga tggatgaggg cttcataggg cgcagattta gggagaacgt 480
 tggggggcgc ttgtacactg ttt 503

<210> 5647
 <211> 339
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316001g05b2

 <400> 5647

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 ggcaaaccga tgccctcagc tgaaattagg gtcgctgca gagcagagaa ggcagacggc 120
 catggacggc gacagcccgg cgatgacgga cagcgagcgg agggcgaacc ggtacgtgca 180
 ggcgcccagg gtgcatggcc tgggcggcat gaagaactac atggaccaa cgacatctct 240
 cttaagcctc agctacgccg gcgcgggggg cagggccgtc gaccactcgt gcgactgcgc 300
 gccaaaccag caccggggct ccttcgctg caagcacca 339

<210> 5648
 <211> 470
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316001g06b2

<400> 5648

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aggtgtatcg gctgtttctt gtgtcttctt ggatggcgcg ggtcctcgtg tgcctcgagg 120
aggccggcgc cgagtacgat ttcgtgcccc tgagcaggaa cggcggcgac caccgcctgc 180
cggagcacct cgccagaaac cccttcggcg agatcccggg gctggaggac ggcgatctga 240
cgctctacca atcccgtgcc atcgcaaggc atattctgcy caaatgcaag cccgagtttc 300
taggagcggg cagcctcaag gagtcggcga tgggtggacgt atgggtcgac gtggatgccc 360
accagcttga gcccgactc aagcccatc gtgtttaact gcatcatcaa cccgctcggt 420
gggagggacg tcgaccaggg cctcgtcgat tgagagcgtc gagaagctca 470

<210> 5649

<211> 488

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001g08b2

<400> 5649

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ctcttctctt cctctctcgc gtccgatggc ctcgagcccg ggcgtcggcg gcggaggggc 120
ggacggcggc ggaggggatg gaccgacgac gctcgacgag ctgtaccaca tcaacgtcgt 180
gccggccgag ctgcattca agttccgcaa ggagctccag ggcctccgcy tgggctcaa 240
cttcgagttc tacaacctag aggtgaatga ttttgaggca aaggtagttc tgaagccct 300
ggactttgac cggaagtgga agttccagta caagccatc agtggtgaca tacagctgct 360
ttccaagaag ataccagtca caaaatatct caaccttcag gtcggcattg gtcacaattt 420
ccaactgaag gcaactggat ggacgtggaa gctctctact gcttgggggg agatgctggt 480
tttcagat 488

<210> 5650

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001g09b2

<400> 5650

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tgccctccac gatgtcaaca tgcgtgcatt ggacggctctt atgggaccag tctatgcagg 120
cactggctga cagcttcgcc gtgtctgcac tcctatggat ttgaccctcc acgctccaca 180
gaacacggag gctgctgcag cagttgcttc ctgaagaagc gcacgatcaa gagcactgtt 240
tcctcaggca catttgaaga gacaacggtc tttgtgcatg gcaaactttg atgatcagga 300
gatgaacatg tcaacatttt ccaagagggt cggttattca aactacctca tcaactctat 360
ctcgaatgcc gtttctaagg gcgcccgtt gatgtcaccc tgggtcaaga agggcgtcca 420
cca 423

<210> 5651

<211> 74

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001g10b2

<400> 5651

tctggccgcc cttttttttt tatttcaatt ttggggcttt cttttgcggc attttttcta 60
atctgtcctc aaaa 74

<210> 5652

<211> 440

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001h01b2

<400> 5652

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gctccaggag aagctgcccgc gccacaagga caccgagggt gagcacgtga cgggcctacc 120
cgcaccggcg gtccccgcgt ccgtgcagac ccaccatgac accgacgtcg tcgtccagaa 180
gatcgacggt gacgtgaaga cagaggcgac accggcagtg cccgaggagg agaagaagg 240
cttcttgaa aagatcaagg agaagctgcc cggcggccac aagaagcctg aggaccgtgc 300

tgcggtgccc gtcacgcacg ctgctccggc gcccgtcacg cacgctgctt cagcaccggt 360
gcacgcgccg gcgccggccg ccgaggaggt gagcagccct gacccgagtg agaaaaaggc 420
ctgctgggaa gatcatggac 440

<210> 5653
<211> 178
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: uC-tsro9316001h02b2
<400> 5653

tanaggccac gtgatgttcg gaactcagag cgtaagttct aggaattttg atctgcgtat 60
tgccaacatg atctgattat ctcatcgttt atctgaagtg attcgatata ttaaaaccca 120
aaaatacata aaaaaaagaa aacataacaa aagaaaaaaa aaaagaccaa caccaatg 178

<210> 5654
<211> 373
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316001h05b2
<400> 5654

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ggggccgaga tgactggcc ctacgggccc cgactggggc caagccggcg ccagagaaac 120
tcagtcaggc tcacgaccgt cgcgtgcgcg gctgccagca tgggtgacgcc catgagagcg 180
ccctccaggc ggactgcccg ggcgcgcgcc tctgaggaga cagagatggc tctgcggtcc 240
gagacggggc tctgcatgct caggaggggc aaggaacact gccagaggcc gaacgcgccg 300
cgggacggca ccatgtccaa cacctacgag ccggtcaagg tcctgggccc gccgacggcc 360
aacctcagcg acc 373

<210> 5655
<211> 464
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001h06b2

<400> 5655

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gtgtccgacg gccacggggc gcacggccac ctggtggcgc gcagggtgcg ggactc:gctg 120
ccgctcaggc tcatgtccgc cgcgcgcgcc tcgccaaga ccgggctcga catgcc:ggcc 180
gccgcctgga ggaaggcctt cgcgcgcgcc tacaaggcca tggacaagga cctccg:ctcc 240
caccgccccc tcgacagctt ctgcagcggc agcaccgccg tcaccgtcct caagct:cggc 300
acggaccttt acatggccaa catcggggac tcgcgcgccg tcctaggctc cagagacgcc 360
gccgcggcgc gcattggcgc cgtgcagctc accgttgacc tcaagcccga cgtccc:cagc 420
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<210> 5656

<211> 366

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001h07b2

<400> 5656

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ccacggagcg cacggccacc cagcggggcg cagggtgcgg gactcgcggc cgcgcaggct 120
catggacgac gcgcgcgcca aagccaagac cgggcgtcga cactgccggc cgccgg:ctga 180
aagaaggcac ccgcgcgcgc ctacaagggc aacgacagag aactggctc ccaccg:cggc 240
atagacagca gatgcagcgg aagacacgaa gtcaccagct cgaagctgcg cgcggaccac 300
caccatggca caggggggac cctggcgccc ccctaagagc gagacgccga cagggc:cgta 360
tggcag 366

<210> 5657

<211> 510

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001h09b2

<400> 5657

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 cgtcgcgcgc gccgctcccg ccgctagacc agctcgccag cagcaatggc ccggat:caag 120
 gtgcacgagc tgagggggaa gaacaaggcg gagctgcagg gccagctcaa ggacct:caag 180
 gcggagctct cctcctccg cgtcgccaag gtcaccggcg gcgcccccaa caagct:ctcc 240
 aagatcaagg tgggtgcgcac ctcgattgag aggggtgctca cggcgatctc gcagaagcag 300
 aagtcggcgc tgagggaggc gtacaagaac aagcgtctcc cgctcgacct ccgacc:caag 360
 aagaccgcgc ccattcccgag gcgtctcacc aagcaccagc tctctttgaa gacggagagg 420
 gagaaaaagc gcgagatgta ctttcccatg aggaagtatg ctttcaaagc ccaggt:tagg 480
 agcacatggt ttacctgccc ggttttgctc 510

<210> 5658
 <211> 237
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316001h10b2
 <400> 5658

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 gatttaggcg ggaaagaaca aaaaattggg aaagagactg taaatatctc ccagtattta 180
 tagtacaata ctggatgcaa aactaccggg aatgccaaaa attaattctt gatttct 237

<210> 5659
 <211> 295
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316001h11b2
 <400> 5659

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 gatgtaccct gatctgacgg agcagggcag cgcgcgccgc gaggtcgccg ccgtgggtcgt 180
 cctcggcggt gcgcctgaga acaaggcggg acagttcgag gtggccgccg ggcagtccgg 240

cgagggctgc agctgcggcg acaactgcaa gtgcaacccc tgcaactgtt aagct 295

<210> 5660
<211> 454
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002a02b1

<400> 5660

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aagtgaagg aagattcaac aattgatcgg tttgaaatgc gaggcgatat ctgggcaagg 120
agaaggacat gcctgcggga taactctgcc tttcacttga tccagtggag gaggacagcg 180
gggcttcggc gagtacaagt gcagcagcca cggaagcct catcgagaa tgacagcaac 240
acgctcctta aggaactgta tgtcacgatg aagagtctcc tcgaagaatt gaaagtcaac 300
accaaggcag cgacggagtc atgccagctt atcgccaaat cttgtcaaga agttatcgag 360
gcctgcaaga tctctgcgac cagcacgggg acccgtattg tgaactgagg aaccgcatgt 420
agatgagtag ccgtgacttt acatgtagat gagt 454

<210> 5661
<211> 172
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002a03b1

<400> 5661

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catacagttt gtttgtacat gtgggtacgt tttcttttcc tttcattaaa cggttttgct 120
atttctcaat agactgagaa ataggtatag ctcaatcgat gctatagcct tc 172

<210> 5662
<211> 535
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002a05b1

<400> 5662

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 tggagctgca ctggtgaacg ctaaacttcg acttcctatt gtgttgcata aattcttgca 180
 acctataact ctttcccctg aagatTTTTT cgcccattgg aaaacatgga atgttcagtc 240
 actcaagggt caagaagtgg ttagagggtg aaaaccatta cctattcctg agatggctag 300
 tcttctcttg agccttcacc tggcagatac tcctggactt gataccaacc cgaacaacat 360
 ggtggcggtg gctacattct tttcggagac aaccaatgcc gcgctttgtc tggtgagagt 420
 tgaaacagat cctcaagaca gaagtcagct cccgctaaca gtcgcatcag gagatcaaaa 480
 tctgacattc gagttgacgg agtacatcaa ggaacatctg atcgacattc cgagg 535

<210> 5663
 <211> 522
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316002a07b1
 <400> 5663

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 aggaacctag aatttatgat tgggtgcatg gatggtcttt catcagagca aaacaagtgc 120
 caatattact atcgcaacct aggaaggcaa cagtcacagc aacaggcatg gcttcaaaaag 180
 agaaggcaag agaacatgtc cagaaaggct gctggcgagg agccgttgcc agaagaagat 240
 ccatccaacc ctatcttcaa gccgcttcct gagccatccc gcttagaggg ttatctcgta 300
 accaatcaga tctcgagtta ctgcaaccat atcaatgggg ttgctggcca gagtttcaac 360
 aggctatact tgatgaaggc gttgcaggaa gattaggtgc cgggtggcag ctgctgtgag 420
 attttaactt aacctgtac cgcacctcaa ttttgcaatg tactccatgt gcactcgcac 480
 attgcctatt ttgttttgcc caaatcagat agttaagatg ca 522

<210> 5664
 <211> 482
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316002a08b1

<400> 5664

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acgcagcaaa ttccccagcc ttccctcgac ccagatccgg aaaatggccc gcacga:agca 120

gaccgtgcgc aagtcgaccg gcggaagggc cccgcggaag cagctggcga ccaagg:cggc 180

gcgcaagtgc gcgccggcga cgggaggcgt gaagaagccg caccgcttgc gccccgggac 240

cgtcgcgctc cgtgagatcc gcaagtacca gaagagcacc gagctgctca tccgca:agct 300

gtccttgtag cgctcgctc gggagatcgc gcaggacttc aagaccgacc tgcgcttcca 360

gagctacgtc gtgtccgccc tgcaggaggc cgacgaggtc tacctcgtgg ggctgttcga 420

ggacaccaac ctctgcgcca tccacgcca gcggtgcacc atcatgacca aggaca:taca 480

gc 482

<210> 5665

<211> 505

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316002b01b1

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ccccacaagt actaggttcc ttgcatatga agaacttaaa gaagcaacaa acaactttga 180

ggcttcctgt gtgcttgggg aaggtgggtt tggccgtgtc tttaagggga tactaagtga 240

tggcactgct gttgctatta agaagcttac tactgggggg caccaaggag ataaggagtt 300

tctagttgaa gtggagatgc tgagcagatt gcaccaccgc aatcttgtga aactcattgg 360

atactatagc aaccgtgaat tgtcacaaag ctttctttgc tatgagcttg tttcta:atgg 420

aagcctagaa gcttggcttc atggctcatt aggcgctgac tgccccttgg atngngacac 480

cagaatgaag atagcacttg atgct 505

<210> 5666

<211> 197

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: uC-tsro9316002b02b1

<400> 5666

tattttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaagggggg gggccttttt aggggtccaa ggtttccgtc cgggggctgg gaacgtaata 180
gtttttttttt gggggcc 197

<210> 5667

<211> 242

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002b06b1

<400> 5667

ttctttacca agctatcgat atcctgcgtc ttgcaacttg ttctgtacta ctccgtttat 60
gatgttaagt cagatcttgt ggatttatag attttgagag atattgtgtt gcatgtttag 120
aaaatgaccc tttccctct tttgaatcaa gtggttgcca tctaaaagac acgctacgac 180
atatggaaga acaactaaac caagatgtca actaagacag aaacaaaaga aaaactgaat 240
gg 242

<210> 5668

<211> 464

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002b08b1

<400> 5668

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ctattctggc aatttctgca agcgcgtccc tactgatatt gatttgcctg tgattgactc 120
tgacaaaacc ataatggttt cctttaagca tgatgataag tttcaggaga attcagaatg 180
tggttttcag tgtgcacttc tttacaccac ggtatatggg caaagaagga tacgagttat 240
aaatatttca cttccatgta caagcatgct cagcaacctt ttccgatgtg ctgatctgga 300
agcacagttt acgtatgttg ttaagcaagc tgcaaatggc attccatcaa gttccctatc 360

ccaagttagg gaccaagtaa caagtacatg catcaatatt ctccagtcct accgacaata 420
 ttgtgcatct gtaagttctt ctggacagtt aattttcccg aggc 464

<210> 5669
 <211> 390
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316002c03b1

<400> 5669

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 acttgatcg cttcttctgt ggagatgggt gcgcccattg tgatcgctc cgcggggctc 180
 gggatgctgg cgggcgtggc gatggcgaac cggacgacca gggacgggct gccggcggcg 240
 tccagatggg acgcgcggcc acgttgctcc acgtgcagcg gcaccggccg ggaggagtgc 300
 ctctgcagcc gttgggccga ccgcgacgtt ggctgcagga cgtgcttccg ctccggccgc 360
 aagcggtgcc gcagctgcgg aggcctctggc 390

<210> 5670
 <211> 339
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316002c04b1

<400> 5670

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 atctcatcga aagaaaaaaa ggatacagcg gggggccctt aatacggggc ggtagccttg 120
 aagggccatg catgaagtca cgagctggga agcttgctgt tgttttaaga ttagacaaa 180
 atgaaatgac gtgggcaatg aggaacaact tcttaattgg agaaactcag agaaaaccaa 240
 aataaatggc cttgtagaag atcccacttt acccacgcgg gcatgcaacg aaaaggccct 300
 cacatagcgc cctctaaaac aaatgcactg cccgaaggg 339

<210> 5671
 <211> 433

<212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316002c05b1
 <400> 5671
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 acgcgtccgc tttttttttt tttttttttt tttttttttt tttttttttt tttttttaga 180
 ttggaattat tttgatccag aagctcttaa caggggcccc acattgcacg ttagtgctct 240
 tgtaaggatg tttactttta gcttcagttt tatgcagaat ttttttgaat tgattgattg 300
 gtagagattt tattacatga taccatgtta cacaatttta cagggcacga ttggattgtg 360
 gttggttgcc aaactgcagg ggttggtgatt ttaaatcaaa aaaataaaaa aaggggtggt 420
 cggttttgag gat 433

<210> 5672
 <211> 264
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316002c08b1
 <400> 5672
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 tcacaactgg gagtgggtggg tggatatttt gatcgactcc tgtaagcca tgttacaact 120
 gtgagtgggtg ggtggtctaa gagtggcgag tagttttcaa gacaatgtgc gagccattgt 180
 tggatccttt tactggcaca gaaccgcgaa ttacacttac ccacacaatc atggttgatg 240
 agacaaatca aatctttgac cgtc 264

<210> 5673
 <211> 504
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316002c09b1
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cccctctca ctcgccagc tctaggggtc cggcgccga ttcgggccga attggaaggc 120
 gcccgggcgg atcggaggag cgggggagag atgacgggga agaagcgcaa ggcggaggcg 180
 gcgcggctgg acgagacgga cggggccatg tacggcgctg tccggggcgc cgccaaactcg 240
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 cgccacgcca tggaaaagct gtatgaatgg atcttaagac agcatgaaaa tggtttgagg 360
 ctgacagttg gtgatatagc ctgcacgctc cagcatgaga ttcagtatgg aggcgacaat 420
 ccgttggcct ctccaagatc acaatatgca agccaaagca ctcatggtac cgtgcatatg 480
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<210> 5674
 <211> 317
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316002d02b1
 <400> 5674

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 caaatgcca acaggctgcc caagctggtg gaggaacca acgcaaaaac cgcgatgaca 180
 gaccgggagg gactacagaa gaactggagc gctgcgacgc acacgtacag agggaggtgg 240
 catgcgacag gccttatgcc ggcaatggct ctgcgaagac cggccggaga tccctagatg 300
 ctacacacca tcaagat 317

<210> 5675
 <211> 328
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316002d03b1
 <400> 5675

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 ccgtacctat agagctatgg ccattgtgtt gacactatct ttagcccgtg gtttctatct 180

tgagaagacc aatcttttta agatttttat acatgagtct ggtgcctttg tttgattact 240
 tgggtactctg ctgtttattc agttatgtag cttgtctggg ttttgtacct gcgcttgaca 300
 cgtaatttac aactctatga ctggtaaa 328

<210> 5676
 <211> 289
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316002d04b1
 <400> 5676

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 ccatcggtac cacctgaaac agcaacttgc tttgttgcat catttggctg gacggctgga 180
 gattgctctg tcatggcctg tgcctatact gtctgtatct tgaacacaaa catthttgtaa 240
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<210> 5677
 <211> 219
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316002d05b1
 <400> 5677

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 aattgtccca gcttcatagt gccctgtgc aaaatgcctg ttcacaaaga aaaaataaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaca 219

<210> 5678
 <211> 269
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316002e01b1
 <400> 5678

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gatcacgtca	cgcacgattg	gcctcaagtt	cgatcgtttt	gagagtgaag	ggaagtcaat	180
ttactgggca	gaagattaaa	gtgttcttga	ggtataaacc	cgggtttcac	cgagatagag	240
tgaggagcat	ttattctata	tatgccctg				269

<210> 5679
 <211> 372
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316002e02b1

 <400> 5679

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ccggcaggtg	gctctgtgac	aacatccaca	gcacaccaa	atcaactgat	ccggcctctc	180
gcgcgcaggg	gcggaacaga	cagagcatct	gctggctcat	ttacgaggag	acccgaagag	240
cgctcaagat	ctgtctcaag	aacgtcatac	gagacggctg	acactacagc	ctagcacttg	300
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ctctctacgg	at					372

<210> 5680
 <211> 497
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316002e09b1

 <400> 5680

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cgctacttc	ctgggctgcc	tcattctccc	caagttggcg	caccgttgcc	cttggtagcc	120
agaggaggag	gccgtggagt	cctatactga	gtacctcaag	gaccttcgag	gccttccttg	180
atcgagaaca	ccaccggtcc	ggtcattggc	gtcgactact	ggcgccttct	cgacgacgcc	240
aggctcaagg	acgtcgtcac	cgccgtgccc	gccgacgagg	cgcatcaccg	cgacgcgaac	300

cactacgcat cggacattca ttaccagggga atgacgctga atcagacgcc tgcgcggttc 360
 ggggtactact gatcagctca atggaccata tatcgatgcc tgctcagtcc attgttgggtg 420
 cgtactacta ccactgtcgc cgatgactgg tgcgcgtgca gcctgatctg cggaacgat 480
 gtgtgtgtat gattctt 497

<210> 5681
 <211> 171
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316002g03b1
 <400> 5681

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 cgtaaataag cacacattcc ggctgcatg tatccatgcg gctctgtgga gcgtgtaaat 120
 gtatgcaaac atctttactt ttgttttgtt gttcaaaact tggacctagc c 171

<210> 5682
 <211> 410
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316002g07b1
 <400> 5682

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 acctcgacga cgacatgggtg ccgtactccc cctccggcga ctccctcgccg tcgtccctccg 120
 acctcgacac cgagtcgacg ggggtctttct tccctgaccg gagcacgacg ctggggcagcg 180
 tgatgggcgt gtcgacgttc ggcggcgccg gtgtccagcg gcggctgact cgggcgcgcg 240
 cggggcagga gagcgagagg ccgacgcgtg cggcaacgga ggagcgagac gggcgcgcgcg 300
 cgggcgggtg gcgacggagg aggcggctgc ggtgcggcag ctggtggcgg ctgtgcgcgcg 360
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<210> 5683
 <211> 428
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316002g08b1

<400> 5683

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tcaatgaagt ggatgctgat ggcaatggaa cgattgactt tcctgagttc ctcaac:ctga 120
tggcgcgtaa gatgaaggac actgattccg aggaggagct taaggaggct ttcgcgtggt 180
tgacaaggac cagaatgggt tcatctcggc agctgaactc cgccatgtca tgacca:acct 240
tggtgagacg ctgacagacg aggaggtgga tgagatgac cgtgaggctg atgtc:atgg 300
tgacggtcag atcaattacg aagagtttgt gaaggtgatg atggccaagt gagctgtcat 360
actaagctag ttctatcttg atgttagcag ctagtctagc cttgaaaact gacagc:agat 420
ggtactac 428

<210> 5684

<211> 483

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002g09b1

<400> 5684

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aaccaggcac catcaggccg gtgcgacccg agcccgagct ggtgtgtggc gaacgc:ggcg 180
gtgggcgccg cgcggctgca gaatgcactg gactacgcct gcggtcacgg cgcggactgc 240
acggacatcc aaccgggagc acggtgcttc gatcccgaca ccaaggtcgc gcatgc:gtct 300
ttcgcgttca atgactatta ccagcgccat ggccggggcg ccggaacgtg cgcctt:cgcc 360
ggtgccgcta ccattgtccg gcaggcacca aagataggca actgcgtgct gccgta:aggg 420
cctgaactga agaactgtgc caaagcgaag cttactacac gagattaagc ataatt:ccgc 480
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<210> 5685

<211> 454

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002g12b1

<400>	5685
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aagagagatg	gccaggaagg	gcggagagag	gaagaaggcg	gtgacccggg	ccgtcaaggc	120
cggcctccag	ttccccgtcg	gccgcacatcg	gcgcttactc	aagaagggcc	gctacgcgca	180
gcgcgtcggc	tccggcgccc	ccgtctacct	cgccgccgtc	ctcgagtacc	tcgccgccga	240
ggtgctggag	ctcgccggca	acgccgcca	ggacaacaag	aagagccgca	tcgtgccgcg	300
ccacctgctc	cttgccatcc	gcaacgacca	ggagctcggc	aagctgctcg	ccggcggttac	360
catcgcgcac	ggcggcgctgc	tgcccaacat	caaccccggtg	ctgctcccca	agagggccct	420
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<210> 5686

<211> 406

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002h02b1

<400>	5686
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atcactgaca	ggatgtgggc	gaggggtgctg	tgctcgacga	accagccctg	cttcctgagc	180
cacgaggacg	tggagaacat	gaagcacgac	gacgatgagc	gccaccacct	gcacaacacg	240
cagctcctcg	atggctcacc	ggcgaagtgc	tcacccaact	gtaacgggtc	agctggagcc	300
gagtgagagg	cacaaagctg	ttgggatgga	tatattgagc	atgtgtaatt	atagctattc	360
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<210> 5687

<211> 229

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002h04b1

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 tgtgttcgac taagaagttt ttatcaagag ttgaacatca caataaaatg aaaatgtggt 120
 gtaatgagac atggaaccgg gttagtttct gtgaaaaaac aagaaaccac cctcgaaaaa 180
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<210> 5688
 <211> 253
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316002h06b1
 <400> 5688

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 caaagttttg cctctgtatc agaaaagctt ccatcattta gcgcgacaag tacaagtact 180
 attgtatcac ttaaaacata tcttctctac gctattttat aaccagacga tccgtattta 240
 atttcatatc ttt 253

<210> 5689
 <211> 364
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316002h07b1
 <400> 5689

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 cctgctcgcc tcgtgtgccc tggcggcggc gagcttagac acggagttagc acgtcacctg 180
 gggtgacggg cgcggcacga tcctcaacaa cggccagctc ctcacgctgg ggctagataa 240
 gatctccggc ttccgggttcc agtccaagca cgagtacctc tacagcagga tcgacatgca 300
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 aaca 364

<210> 5690
 <211> 356
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316002h08b1

 <400> 5690

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 gtcgccgaca gtgaccggac cgagccgttc gtgcgagcac aggacgcggg gaggagatgc 180
 cggctgatct ccggttctca gacgcgtcta gctccagcgg gaggaggagg cggcgctcatc 240
 gatctcggcg ggggaaaggc gcgagcttgg gcttgccctga cttattgctg acggcggggg 300
 cgaaggggag ggcagaggcg atgctgcggc tgtagtcgcc attcgcagtg gtgcct 356

<210> 5691
 <211> 229
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316002h10b1

 <400> 5691

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 ccgaggtctc tactcgtatg atgtcggagc ctgtaaacgc aagaaacacc ccttgaaaaa 180
 cgcattgtgt gtggtattaa tactggtttg ctaggcttgg attctcctg 229

<210> 5692
 <211> 486
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316002h11b1

 <400> 5692

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 ctttatctca agagattgtc ttaccacgcc aaaggagggt gcggtgtcag ggagagacct 180

aggtgcaggc tgacggtggt ggtcagagaa gccacagccg aggaggaagc taagattgcg 240
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 cggcttatcg aggtcagccc gaaatgggct cgtaaaagga aagaggagga ggaggaggct 360
 ggtgcttcag cgtagtacia gtttacgttt gcagcaaggt ctgtctttct tggccgacct 420
 ggagccagag attagtagct gcatctgcag tcgtctggct tatctgttga gacttactga 480
 agaaca 486

<210> 5693
 <211> 84
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316002h12b1
 <400> 5693

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 aaagaaaaac caaaaaaat atat 84

<210> 5694
 <211> 398
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316003a02b1
 <400> 5694

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 ggcacttctt cccctctt gcgaaggtct agggtttggc tgagtagaga agagagactt 120
 cccctcgtc cagtagggag ccgccatgag ccgatcgggg cagccgccgg atctgaagaa 180
 gtacatggac aagaagctcc aaatcaagct gaatgcgaac cgtgttgtca ttggcacgct 240
 tcgtggattt gatcagttca tgaatttggg ggtggacaac actgtggagg tcaatggaga 300
 tgagaagacc gacatagga tgggtggttc tgagaggaaa tagtgttgtg atgattgaag 360
 cccttgaacc aattgccagg tctcagtgat attttggc 398

<210> 5695

<211> 485
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316003a05b1

 <400> 5695

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 gtgtatgcta tcaatgatgc cttatctgct gaaggagcgg cagaggacta tgaaactatc 180
 ttgaagcaac ttgttaagaa tggcgctcctt gcaatgtcaa agacaactgg gtttcccagg 240
 tttgatctcc agcttcttgg catgggccct gacggtcaca tcgcctctct cttcccaggc 300
 catcctcttg ttaaagagaa caagaagtgg gtcaccaca tcttggaact tccaaagccg 360
 ccaccacaga ggatcacatt cacgtttccg gtgatcaact cctccgcata tgcgcacatg 420
 gtggtaactg gggctgggaa aggccgtgca gtgcagaagg cgatttctga caagaagact 480
 tctga 485

<210> 5696
 <211> 369
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316003a06b1

 <400> 5696

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 cattggcccc ggtgtgctcg acagttcact ccccaggat cccgtgcaag gaggagatcg 180
 ctgcgccgct gaccaagatg cttgcggggc tggacagatc gaccctgcga acagaccctg 240
 actgcggatt gaagacccga cagtccgctg aggggaagct tgagctcacc aacatggttg 300
 aggtcgccca gcagatccga gccccgttcg caacggccca gtccgccttg cttggtttgc 360
 gctccccac 369

<210> 5697
 <211> 318
 <212> DNA

<213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316003a08b1
 <400> 5697

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caaaacagtg aatcgggtgat gtaaggtgga atggataggc ttggtctttt ccattctcat   180
gggctggtgc ctgatagtca gcatagcccg tcggaaaaac agagacttgt tgcctaaagt   240
aaactgtgct ctttgtgcaa aagttatgct tttgtcttct ggcttttgta tcagaaataa   300
aaaaggagta tttagttg                                     318
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<210> 5698
 <211> 572
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316003a11b1
 <400> 5698

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tgacgcgggg gaagcagaag atcgacgcgc agcgggaagag cgcggagaag aaccagaagt   120
ccaaggggtc gcagctcgag gcccgcgccg tcgggctcaa ggtcgtctgc cccatctgca   180
aggcgcaact ggccaacgag aagcagttga ttgatcacta tggatcaaag catcccaagg   240
agaaacctcc aggtccatca aatgcagagt gactgatgcg aagtggaagc atgagctata   300
ctttgcctgt ttctgagggg gttcaatctg ctccacactt ggacgacttg agcctcagct   360
ctaccctatg taatgcatgc atttctctt gttccaggca agagcctttg atgaccatgt   420
at ttgccttc tatgagtatc tatgtctaac tgtcaacata cctttaaact gtatgtggtg   480
caatctttgg ataagagaat gctaaacttt tttcgttatg tcattctcct gtacgggctg   540
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<210> 5699
 <211> 298
 <212> DNA
 <213> *Triticum aestivum*

<223> Clone ID: uC-tsro9316003b03b1

<400> 5699

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tgcgagggct gggtcatgat atggccacat tggtggagga tgaaggtagc catttttagtt 180
cccatccct gtgtgtgctt gtacacttca gagcacctca atttccaggc cacatctgct 240
gttcatttgc actcttttaa taatagcata tatctctatt gacagagttg gctagtct 298

<210> 5700

<211> 326

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003b05b1

<400> 5700

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tgcagatctt cgtgaagacc ctgacgggca agaccatcac gctggagggtg gagtccctcg 180
acaccatcga caacgtcaag gccaagatcc aggacaagga gggcatcccg ccggaccagc 240
agcgctcat cttcgccgtt aagcagctcg aggacgggcc gacctcggc cactacaaca 300
tccagaagga gtccaccctc cacctg 326

<210> 5701

<211> 424

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003b08b1

<400> 5701

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atatctggag cgtgcagcca tcatcttcag gaaattctct gtgtcgatca ttgcaccaa 180
attgcgacgc tgctgctgag tacatataat aagagatgtg ttgatctcat gtatgcattg 240

ttcatgcctt ttggcatggt tagccatctg tgccctggac ctagtctatt aataaactgg 300
 aaaaatagca tatcttccgg tgagagtaac attttacgca tgctaccttg agatcggact 360
 gctcgaaata aaaggagatc gaagccttca ggccgttggt caaaaaaaaa aaaaaaaggg 420
 cggc 424

<210> 5702
 <211> 459
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316003b12b1
 <400> 5702

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 aaaagtgtta ggaataatac cacaggcacc ggtcctcttt tcaggtaacta ttcgatttaa 120
 tctggatcct ttcagcgagc ataatgatgc ggatctatgg gaggctcttg aaagggctca 180
 tctaaaagat gtcataagga ggaatgctct agggctagat gctgagggtt ctgaggccgg 240
 tgaaaatttt agcgttggac agcggcagct gctgagttta gtcgtgcat tgctaccaag 300
 ggcaaagata cttgttcttg atgaggcaac agcagcagtt gatgttcgaa ctgatgctct 360
 tatacagaag acaatcagag aagaattcaa gagttgtaca atgcttatca tcgctcaccg 420
 cttgaacact tgtatcgact gtgacaggct gcttattct 459

<210> 5703
 <211> 294
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316003c01b1
 <400> 5703

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 aaaaacaaaa acatgtacat taccagtgat gtatttgtgt gtacatgttc agcagttctc 120
 ctgtgcaaac gcgattgtac tgctataaca tgcattgttg ggttcggttg tgatagtaat 180
 aacattgaaa agagcagttt taagatgaca atgcagttgt tgcaaaaaaaaa aaatgaaac 240
 atcaaaaaaaaa aaaaaaatga cagatgagct agatgacacg agggcctagc ttgg 294

<210> 5704
 <211> 366
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316003c04b1

 <400> 5704

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aagcccatca aatgcaaagc ggcggtggcg tgggggtcccg gcgagccgct ggtgatgcag  180
gaggtggagg tggcgccgcc ggcgccatg gaggtgcgcy tcaaggtcct ctacacctcc  240
atctgccaca ccgacctcag cttctggaga ggagagaacg agcgtcaacg caggttcctc  300
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<210> 5705
 <211> 386
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316003c05b1

 <400> 5705

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agatcaccga caaggtgttc gaccggctca ccgaggacac ccagaagccc gagaaggacg  180
ccctcaagtt cgaggaggtc tacatcgccg tcctctgcgt ctacaatgac atcaacaagt  240
acttgccagg gccgcactac gacccccct ccaaggagag gctcaaggaa ctcatgagag  300
agtttgacat cgacatgaac ggtctcctgg accgcgagga gttcgcgag ttcctccgga  360
agctgaccgc ccagtcactc tgcgcy                                           386
  
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<210> 5706
 <211> 368
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316003d02b1

<400> 5706

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caaatggagc aagagtgaat gaagtgttca tccgtgggtg cttgcttgct tccttctttc 180
tttcatccct cccaagtgtg tagtgtgcct tgtgtgtaaa gtctgccgtc tctgtatata 240
cacattgctc ccaggacagg tgctcggttg tgtacatctt tgatgcttga caagcaacat 300
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<210> 5707

<211> 395

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003d04b1

<400> 5707

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ccattcttct gagatgtttg gatttggtta ggaggtgttc aattgctgcg cagagaactg 180
gaatgctgag acgctgatga aagagctaga tgttgtcagc aagtccaaag gcatattggc 240
agcaaatacag gcgagccaat ctacgattcc ccttctatct ccggccatca gtccacccaa 300
atccttcaat ttcaatgccg gcacctccat tctcgactca cagattgatg cgctcaagac 360
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<210> 5708

<211> 489

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003d12b1

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 gcatgacttt ggatatatgt ttctgcaggt ttcagaatgt atccaagatt gcagggaagt 240
 taattacacc atctgtggaa gatgggttgt ggaagatgga cattgcccct caggteattt 300
 cactttgtcc tagattaata acagattact aatttatttg tttaaacagg gcaggttatt 360
 tacgggagta ttttctatgc agaaactttt agaattaact ttgaccattt actattgact 420
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 ccaaccaaaa 489

<210> 5709
 <211> 288
 <212> DNA
 <213> Triticum aestivum
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 <400> 5709

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 caaatgatca caaaagtcac agtggataga agcaatgata tcaataaagg aatgaaacaa 180
 cggaacaaga aatagaaata aaatgtagca tctcaatggg ttggcagaat attgttgaat 240
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<210> 5710
 <211> 374
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316003e05b1
 <400> 5710

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 ttggaatcag gcagtgcaaa gcttgagtct taatgttcgc aaaatattct tggaccatga 180
 ccctgtactc tttgaggggt gcctgaagaa gtttcaggac gatgaagctc aagaagatgc 240

gatgcgatca aaacgtgatg ccacatggaa ggcctagag gaaattgcct cgtcaaatacc 300
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<210> 5711
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316003e06b1
 <400> 5711

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 aatcgcgctg cgatttttgcg attgatgaat cgaaatccat ggtgggtggtg gtgcgcgggt 180
 ggtggcggtc gattattttt ctcttgttct ttctggcgtg aaggcgaggg gtcggagcgt 240
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<210> 5712
 <211> 377
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316003e07b1
 <400> 5712

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 gatcagcccc gacgacgcct acgctccat cgacctccc atcctcggcc tgctcttctc 300
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<210> 5713
 <211> 372
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316003e10b1

 <400> 5713

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tggtcacaaa gtccagtgtt gtagcatgta tcataaggat gaacacgaac agtttgaaat   180
aaatgtgctc tcatgtttgg agaagttgtt catgtatagc agctgctacg aaaatttgtg   240
catgtatagc aactgcttgg aagtcgtaat gtacaatttg tcatttgccc gttccaaaaa   300
acattcggta ctatattgct gggtattttg gttganaaaa anntntana aaaaaataat   360
aaataaaatt tg                                                         372
  
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 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316003f01b1

 <400> 5714

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accgcgcccg cgcggcggac ggcgtcggcc ctgtgacgtg ggacaacagc gtggccaggt   180
tcgcgcagga ctacgcgaac aagcgcgccg ccgactgccg gctgcagcac tccggcgggc   240
cgttcggcga gaacatcttc tgggggtccg ggcagtcgtg gacggccgcg aacgccgtga   300
agtcgtgggt ggacgagaag cggaactacc acctcaacag caacacctgc gatgc       355
  
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 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316003f02b1

<400> 5715

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aatctgacca gtcagtatgc ggcgtatagg aactagaag ctatccctct tgcggggagt 180
attgatttct ccgtcgacag tccactcggc gttcatgcga aattctaaag ctgattgtga 240
agatccgagt ctgattttca aggg 264

<210> 5716

<211> 270

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316003f03b1

<400> 5716

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aaggaatggg tggaggaggt ggtggtggag ctnaccatt cgacatattt tcatcataaa 180
tagggccctt ttttggaggt ggtggtggtg gcagcagctg gggctgaagg caatggaggt 240
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<210> 5717

<211> 354

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003f05b1

<400> 5717

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aggatgcttc tgatcaaata cagtttgtca ctaggcaaata tagatacgaa catgtgattg 180
gtcctggaac tttgtaggtt gttctgcca tggctacgag cagatattgc cgaataaaaa 240
tgccaagatt gcaagcatgt gttggtttgg catacaaaaa aaaaccaaac ctggaacaaa 300

aaaaaaatat taaaaattat atacctaata aactcttata tttaccaaaa ttaa 354

<210> 5718
<211> 281
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003f06b1

<400> 5718

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cggacaatag cactaaaccg gtgggggcccc aagtcgactt tttttacgcc aatacaagtg 180
cccatgttcc cggggtacgt accggggggg aaacttcccc gagacgagtg gctaatatcc 240
gggggggttc tttgcacggg gggcggggaa aaatgtccgg g 281

<210> 5719
<211> 368
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003f07b1

<400> 5719

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aaagatcctg gttacatcaa caagaatata agagactcgc aaactcaaag agatgaagaa 180
cctttgttga agaggggtct agataacca gaacttctgg ctggcaattg gtctcaacta 240
tgtattactt gcaaaattgt gaggcccata cgctcaaaac actgctctac atgtgatcgc 300
tgtgttgagc aatttgatca tcaactgccct tgggtttcaa attgcatcgg aaagaagaac 360
aaatggga 368

<210> 5720
<211> 87
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003g03b1

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 atcaatttaa gatcatataa tgggtgtg 87

<210> 5721
 <211> 151
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316003g05b1
 <400> 5721

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 aacattacat tgcgtgtcgt tttcatgatg t 151

<210> 5722
 <211> 259
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316003g06b1
 <400> 5722

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 aagttgcaga cggaggccgc cgccgccgcc gggggggagg ggaggctgat gatccggcag 180
 gtgtgggcga acaacgtgga gtcggagttc caggcgatcc ggcaggtggc ggagcggttc 240
 ccgtacgtgt ccattgaca 259

<210> 5723
 <211> 315
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316003g07b1
 <400> 5723

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agggacgcgt gggctgggac cttcgaaggt gtcgtgcaaa ccagaactga accgaggaca 120
 gactgcccag agcaactccc gacgccgacg aggatccggc agacggaggc gaacgaggag 180
 gcgaagctga gctcgttcca gcaggagatc gtgcagctgg cggcgggtgct gaacggcgac 240
 caccagctaa gcagcctgca ggagaggatc agggagagga tgaacgtgag ggaaggcacc 300
 tctacatga ggagc 315

<210> 5724
 <211> 377
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316003g08b1

<400> 5724
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 agtgcaggtc cttctggcga ggatatgttc cattggcagg caaccattat gggtcctcct 180
 gatagtcctt atgctggagg tgttttctta gtgaatatcc atttcccccc ggactacccc 240
 ttcaagcctc cgaaggatc gttcaagaca aaggctcttc atccgaacat caatagcaat 300
 ggaagcatat gctcgcacat tctgaaggag caatggagtc ctgctttgac aatctctaag 360
 gttctgcttt caatctg 377

<210> 5725
 <211> 287
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316003h01b1

<400> 5725
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 gttgcgagtt gagacgggat ctacaaactg aatctgtctc cccgttgaag accctctctg 180
 ttaaaagact cacggaagaa acaaaatggt actgctaatt aggactccct ctgtaaacta 240
 atataagatc ttttagagta ctatcgagaa acatttctgt ttcaaaa 287

<210> 5726
 <211> 261
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316003h02b1

 <400> 5726

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 acggacgtag ctagcgaaga gccacgtcga gcgcgactag cgcgcgggat tgtgttccaa 180
 cggcaagtcc aaccggaaga ccaacgccga cgccgcggtc accaacgggg acagcaacgg 240
 cgggccccgc aagatgtacc a 261

<210> 5727
 <211> 413
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316003h06b1

 <400> 5727

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 ctgatcttga agcaaaccg atgtggatgg ccagtgtttg ttaccctgcg cagtggatat 180
 agttagcttc ctcttcaaag gtgccttgct tgtgtatttt actaagccaa acttctgttt 240
 agtgatcaat tttttgatgt actattgcat tcccaaacc acggagatct gaggctttgc 300
 aactactaca tngtgcaggt ttatgttgta ctatcaaacc agaattgttt cagttttcct 360
 tgtgatagcc tggatttcag gaagccataa gatgatggca ctaaattgtca tct 413

<210> 5728
 <211> 300
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316003h07b1

<400> 5728

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gggaagatgt accctgatct gacggagcag ggcagcgccg ccgcccaggt cgccgccgtg 180
gtcgttctcg gcgtggcgcc tgagaacaag gcggggcagt tcgaggtggc cgccgggcag 240
tccggcgagg gctgcagctg cggcgacaac tgcaagtgca acccctgcaa ctgttaagct 300

<210> 5729

<211> 250

<212> DNA

<213> Triticum aestivum

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<400> 5729

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tcaacgagta aagaggaaaa gaagctggtc tccgccacca aggagggcca agaagcacgc 120
tgacagcacc ggaatagatg aagaggaatg cagaactaaa gaggaagtcc gaggggctat 180
ccaaggtgat caaggacgcg ctggccgaca ggtatgcgaa ggtgagcgac tcaaaaagaa 240
ttgactattc 250

<210> 5730

<211> 474

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316003h10b1

<400> 5730

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agcgaggaag agaagaagag gaaggaggag ctcaaggaga agttcgaggg gctctgcaag 180
gtgatcaagg aggtgctggg cgacaggggt gagaagggtga tcgtctctga ccgcgtcgtc 240
gactcaccgt gctgcctcgt caccggcgag tacggctgga ccgccaacat ggagagigatc 300
atgaaggccc aggcctgag ggacacgagc atgggagggt acatgtcgag caagaagacg 360

atggagatca acccagagaa cgccatcatg gaggagctgc gccagcgcgc cgacgtggac 420
aagaacgaca ngctctgtcaa ggacctgggtg atgctgctgt tcgagacctc cctg 474

<210> 5731
<211> 416
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003h11b1

<400> 5731

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aacaagaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaagg gggggccggtt ttattggacc aacccttatt accccggcgt tgcagcgaaa 180
tatttttttt ttggtggccc caaaataaat ttaattggcc ggggtttaa aacaacgggc 240
tggggaaaac aatggtgtga cccacaaaaa ttgttttcaa gaaaaacccc ctttttacgg 300
cgggtggaaa taaaaaaagg gggggcccca aggcccttcc caacaaatgg ccaacctaaa 360
tgggaaaggg aacccccct tctcgggggc cataaagcgg gggggggggg ggggtt 416

<210> 5732
<211> 294
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004a11b1

<400> 5732

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cacattacat tactacttgt gttgatatat gtactgggtg gttagtttac tcagggtgtg 180
gagattgtac gagcagcaat gttatgtgtt tttcctgcag attaactaat acatttgtct 240
tgtaaaaaaa aaatcttaaa aaggagcctg acgacaccag gccttatctt attg 294

<210> 5733
<211> 508
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316004b02b1

<400> 5733

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acgacctaca agggctacac catccccac aacaagcgtt ggacacacat cgccggcaag 180
ggcctctgcg ccaccatgtg gttttggatt ttctacaggg ctaagcagga tggcgctgtg 240
ctcttgggta tgcgtcatcc ttgggatggc catgatgatc acgcgcatgg tcatggacat 300
gcacacgagc atgaggcttc gtcgtcgtaa tcgccgtccc attgagctcg acgctgaatg 360
cggctgacag agaccctgac gcgtngcatg ttctgacgca agtctctgct taataaaaaac 420
aatcacaact atcattattc acccctgttg ttngcatgta ttttttttta gcacacaaac 480
tgggccttgt gtgtattttg ttttgagc 508

<210> 5734

<211> 553

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004b08b1

<400> 5734

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tcgacaagct ccgccgcgcc gccgccaccc aaccctcgc catcaacaca gctgcagggg 180
aggcgattaa gcagtcgccg tcgatgccga cgaccccgac cacgccggtg acgccgtcgt 240
cgtcgacgcc gccgcgtggc ggcagcgtgt ggcggagcgt tttccacccc gggagcaacc 300
tggccaccaa aagcctcgga gccaacctct tcgaccgtcc gcagcccaac tccccaccg 360
tctacgactg gctttacagc gacgagacca ggaccaggag caaccaccgc taaataagag 420
ccgacggcca gagaattgaa gacaggaagt tctgcgacgc cgccatgttt gctgctcttc 480
tggttatcta atcctgcata gcgtacgttg ctgcctgagg ctgcatgtag tttggctgga 540
gcttcgtact act 553

tcgccagagg ttttgtgaat tactccaagg cttcatccac gtcaagcaga tcaaattgaa 180
tatccgtctt cggaaagggt tcaatgttac cagccacggc gttcttcttc cagtccctact 240
caacatcgag tgcattgagc ttggtctcgt ctactcacca agttgcaagg aagcggcggc 300
aatgttgatt gcggagctac ttacctgctg tçctaagctc cgtgatcttc ggttcaacct 360
tatcaccagt tttgaagagg atggtcgccg ctctgaggga tctggaaatt ggccgacagt 420
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tgtgcagc 488

<210> 5738
<211> 440
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316004c12b1
<400> 5738

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tçctggcaac tgcattgagag aaagtgggta gcctccgctg tttgcatcaa gatgtgatgc 180
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agggcctgac agcatagcgc atgctccatc ggccgctgtg tgcttgtttt atttttggaa 360
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tcagaaaatt attgtagatt 440

<210> 5739
<211> 519
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: uC-tsro9316004d01b1
<400> 5739

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agttcagaat ctaggccttc tgggtgaatg gaggtgcagc ttgagcctct caccagatga 180
 gtagtagaat agcgtagatc aatctgtatc tcccagtgtc agatacacac acacacacac 240
 accaagtntc gttttcagtc atacaacaga aacagatggg gtccacaagc acggtgactt 300
 tccgctcaga aagaaaattg aattttctcat gcttgtttct tctaccatgg cagaatggta 360
 ccaggctaca taggatcttc aaattatgcc tttgattcct tgcgtcacac ttgtcagatt 420
 gtatagtgtg cattttgggt tttcacaata gacaggcaca atttggttaca ttgtcccaa 480
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<210> 5740
 <211> 223
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316004d06b1
 <400> 5740

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 gcccggtgga ttacgatgaa gatgaatcgt caagatactg ttccatcttg ggtgcggata 180
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<210> 5741
 <211> 441
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316004d07b1
 <400> 5741

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 caaaagctgc tgtcttggtt gacatggatt ctattggaaa ggaagcacag ctaagagggt 120
 ttgaattcgc caaagctggt actcttggtt ctgaaccatt cacagtagaa aatgggtctcc 180
 tcacccccac gttcaaggctc aaaagaccgc aagctaaggc ctatttcgcy aaagaactcg 240
 cagatatgta tgcacagctg cgtgacgccg aatcagctag gcagaagttg taattaatcg 300
 agaaatgttc aggagtaagg ttcaaaccac tacaggacag gttcacacaa cggagtaagg 360

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<210> 5742
 <211> 257
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316004d09b1

<400> 5742

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 ttgctttgg tcagaaaaac tggctccgca tttcatctgc ggtagtgtaa taaactgatg 180
 tttcacagta cttgggttgt acttgtagcg gagacctttt tatggtactt gaatctgatt 240
 gattaccttc tctgaat 257

<210> 5743
 <211> 409
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316004d11b1

<400> 5743

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 gctctgctca ttggtttggt agggagagat gaaggcgatg tccgggacga agctgctcct 180
 cgctccgccag ccgtcgagca agtacggtaa cggggcggtg tcgccggcga cggccacatc 240
 catctcctgg cgccgcttct ggctcgtcgc gttcctcgcg ctcttacctg cgcgtccctt 300
 ttacggtctt cttcacgggg cgcgcgccgt ccggggcggc gtcccggggg tccagttcgg 360
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<210> 5744
 <211> 522
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316004d12b1

<400> 5744

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tccgagaggc tgtcctgttg ggagggaaga acgcccgcatt tgctggcacc gtggtcgcgg 180
ttcccacggt gcgtatttgt gtgtgaatt cttgtgtgca tgctgcata tgcctgact 240
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aacctgaact acaccgcgca agcgtcctc atatcgacag tcctgtgtcg ccggcttctt 360
catcaccgcg gataaaacca ttctgcgaaa cgcaaggcaa aacaccatcg gattggatcg 420
acgagtcgac ttgatccagg actgtacaga atcgaggcc ctctgttcca tctatgatcc 480
atggatggtg ctgcatgagg agacgtcgaa ttccagtttc ag 522

<210> 5745

<211> 340

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004e01b1

<400> 5745

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tggcttgcat gtagtattga gctatgtacc ctgctggtgc catgcatgct agttcttttt 180
gttcttttgt tctgtcgtcc cgtatgttgt ttcagcttgt aatttgtttg aatctaaggag 240
agacttcctt agtgacatgt atcctatgaa tttggcgtgg cgccttggtt gtcaatgatt 300
ctacattctg actatttgtg acgaatgtat gggatgcccc 340

<210> 5746

<211> 160

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316004e04b1

<400> 5746
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 gtcgccccat acacacctat gtaattcgag agtctatcta tgatctatta gcatacattg 120
 gcataagtgt tcactttgtg gcaataatac ttatctaata 160

<210> 5747
 <211> 222
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316004e05b1

<400> 5747
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 gagggaagcc aggatgtgag cgaggggaca ccgcgatga ggggtgctcc catcctgctc 120
 cgctcgaggg ggatcgtaga gcctgctgta tgacctgcct caccggcgcc agccctgcac 180
 ccgcggcacg atcccatgcc gcgactcctg gaggacccca ag 222

<210> 5748
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316004e06b1

<400> 5748
 tcgccgaagc agaaaaagca tcgtctcgtc tcgtctcgtc gaggaatcaa cagccatggg 60
 cggcggcaac gcgcagaagt ccaagatggc gagggagagg aacctcgaga agctgaaggg 120
 cggcaagggg agccagctcg aggccaacaa gaaggccatg aacatgcagt gcaagatgat 180
 catgcagact ttcatctgca ccacctctga agcaaagtgc aaggagcatg ccgaggcaaa 240
 tcatgctaaa agcgagctcg tccagtgtt tcttcacctc aagcagtgat atctgcccac 300
 cagacagaga gagagataaa gagagagaga gagagaagct gtcataatcc acctactatt 360
 atcatgttcc gcaatgactg a 381

<210> 5749
 <211> 436
 <212> DNA

acacaaaaaa aaaaaaaaaa gaacacaaaa aacacaaact cgtaaaaaaa ccaacacaca 120
aataacaaca aaaacaaaac ctaacactaa aaaaaacaaa acaaaaaaaaaa agaaacacct 180
ccctaaaacc aaaacagggg gggg 204

<210> 5752
<211> 540
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: uC-tsro9316004e11b1
<400> 5752

tgagacaatg tcacagtagg gcatagtgtt gtattacatg gatgcactgt tgaggatgaa 60
gcttttgctg gtatgggagc taccctgtta gatggtgttg ttgtggaaaa gcatgggatg 120
gttgctgctg gagcccttgt aagacagAAC acgaggatcc cttgtggaga ggtatggggg 180
cggaaccct gcaaaatttc tgaggaagct cacagacgag gagatcgctt ttattgcgga 240
atcagctgcc aactattcca acttatccaa ggcacatgct gttgagaatg ctaaattcctt 300
ggaaaagatt gattctgaga aagtcctgcg caagaaattt gctcaccagg acgatgaaca 360
cgattccatg cttagtgtca ctcgagaggt ccctccagag ctggcgccca ccagtcctac 420
tctccaatt aaactattct atcaccacct tcagtttgca ttcttatttc tctatctgtc 480
cagngagttt ggcagtctac ttttacttca gtaattttgg gtcgagcatt gtctaaagct 540

<210> 5753
<211> 417
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316004e12b1
<400> 5753

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acgacctgat gggggaggcc gagatcgacc tgcagcccat gatcaatgcg gcagcatcgt 120
ttggagatcc agaactgctc ggcgacatac agatcgggcg gtggctcaag tccggggaca 180
acgtctaac cgccgacagc gctgtcatgg tgaccggagg caaggtgaag caggaggtct 240
ccctgaagct gcagcacacc gagtcggggg aggtgacggt ggagatgact ggggatggct 300

ctaaacattt agagaatccg gatatacgat ggcaaatttg tactttgctg caaaggatcc 360
attgaatcga ctttctggga aaaataataa tttctgctac tagtagcagg caatcac 417

<210> 5754
<211> 487
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004f01b1

<400> 5754

tactatattgt gagatgctcc gccggctggt gccgccggtg cattattggg tgggtccacg 60
cgtcttgtta cgcgtccggc cacgcgtccg cccacgcgtc ctcccacgcg tccgcccacg 120
cgtccggttg aagtgtttga tgaggaaggt ctccatattc tcatgggcat ggcttttctt 180
acctatctgg agctaaaggt atcagagaca gccggcggtc tgactgtaag tagcaacggg 240
ttcaagctgc tagagggtgtt ccactacaga attaatgaag accgtttgaa tgaaggcgaa 300
gcaccaggga tagaatttgc agcagggtgct atgccagcac tccggcgggt ccatcttttc 360
tggaacggaa attttgctag tgatggtgct gacatgggta tccagcatct ttcaagcctt 420
gcgcaccttc aagtggaaac taggtattat aatgcaacca tggaagaggt gaaggctgtg 480
gagggtt 487

<210> 5755
<211> 293
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004f03b1

<400> 5755

ttgtaagaag aagagagggt gctcaacaac ttctgcgact ccgccatgtt tgctgctctt 60
ttggttatct aatcctgcat agcgtacgtt gccgtccgag gctgcatgtg gtttgtcttg 120
agcttcgtac tactgtctac tagtgcttgt aactttcttt tcttatcccg gtctgctcac 180
tgcatgctag cgagtgatgg gtgtgtatgt gtgtactttg tgtacgctcc atgtgtaaat 240
tctcgtgtgt gtggtgtggt gttctcaatg ttttaaccacc tactatggta aga 293

<210> 5756
 <211> 370
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316004f07b1

 <400> 5756

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 gctgccctcc ggcgatcggt ggcgtcgggg tatccggtgg ttccgagga gaggagaagg 120
 cggatgccgg ccagggtgtc ctgcgtcggc cgcgaggga gaggcgtagg cgggggattc 180
 gccgacgagg cgcacctcag gtactacgag gcgccgccgc ggaaggcggg ggaggcggct 240
 gccagggacc ttaccaagct ccaggccatg ggccttgtcg cctgcgaccc ggccaaggag 300
 aagatcctct cggaagccac tgagctgctg ctaaaggagc tgaatcagat gaaggatgca 360
 gaggacgagc 370

<210> 5757
 <211> 467
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316004f10b1

 <400> 5757

 ttttctcaaa atgatttatt catgatgatg cagggtcaatg tattaaatga attggtagct 60
 ccagacactt gcgcacaaag cgtagaaatt ttgtatgagg ttaggggtgg agtagacatg 120
 gaatttcaag ttccagttcc tttcaatgtt gtaccagttc aacagatagt tcctcagagt 180
 ggtggagaag gccaaactga gttagttctt gattcttgta ttggtagttc cactgtgcat 240
 gaccctgcta agatgtctgc tgagctttgc attgggtgaat cttgcacttc tatgttacag 300
 ctgatgaaga ggtatctccg attggcaaca actaatgcat catggactgc gaacaattct 360
 tttgcagtct acccgattta ttatggggct tactttactt cgggtgtgga tttgagtggc 420
 accacaggct atattactgg tgattatgtg gggcttttgg cttcatg 467

<210> 5758
 <211> 390
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316004g01b1

<400> 5758

tggtcatctc ctccgccacc accaccacca cgtgcccggc ctcgctcctc gccaggcagg 60
ccgtccgccc cggcgccgcc gtctgcgcgc tgacctccgc gaacggcggc ggcgacgacg 120
ccccgtccg gcccgtaag gtgcacgccg gcgccgcgtc cggcggaag ccgtgaagct 180
gaccggccgg aacaagggtg catccgtgca tgcattatct atgttattag gatataatca 240
catgtatcgc tcctgtatac tgcctccctt ccaattttct tgctctgaag atcagactca 300
ccatgcacac gtacgtgcat gtgcatgac gagcgagctc ccatgagaag gcttatctcg 360
ctccctccat gaatttgcat gaagatcttc 390

<210> 5759

<211> 384

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004g09b1

<400> 5759

tttttccac gcgtgcgtcc acgcgtccgg cgacgcgtcc gtccacgcgt gcgcccnaac 60
cctaccccg cggcgcgcgc gccgccgcag cgcgcgagg cgacctcca ccgcgc:caa 120
gatgcagatc ttctgtaaga ccctgacggg caagaccatc acgctggagg tggagtcctc 180
ggacaccatc gacaacgtca aggccaagat ccaggacaag gagggcattc cgccggacca 240
gcagcgcta atcttcgccg gtaagcagct cgaggacggc cgaaccctcg ccgactacaa 300
catccagaag gagtccaccc tccacctggg gctccgcctc cgcggcggcg ccaagaagcg 360
caagaggaag acctacacca ggcc 384

<210> 5760

<211> 283

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004g12b1

<400> 5760

ttcttacgcg ttcgagaaga tcgatcgatc gggctgtttt actggttggt tcctcccacc 60

gccactcgat ccaatcacat tcagggagga aagattcaac cgactgcgcc tccgtgatga 120
 acttgctgac tgaggccgcc gtcgccttcc gcggggaggg gaggtgatg atcctgcagg 180
 tgtgggagaa caacgtggag tcggagtgtg caggcgatcc ggcaggtggc agaacggttc 240
 ccgtactgga tcatggacac ggcgctccct gtcgtgatcc act 283

<210> 5761
 <211> 317
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316004h01b1
 <400> 5761

ttttcttcgc gtgcgtccac gcgtacgacc ctggttgtct tcttcccaa cccagtgcaa 60
 gcaagcgcaa ccatggctcc gattggcgtg tgcagcacc tncggacgg gcagctcgcg 120
 tggttcgacg agagcgaaca gatgcaacag gtctccatcc actccctggc cgccggcaag 180
 aaggatcatcc tcttcagcgt ccctggcgcc ttcaccccca cctgcagcaa tcaacatgta 240
 ccaggcttca ttactcatgg ccgggagctt aaagcccagg gtgtcgatga gatcctgctt 300
 gtcaagcgta atgaccc 317

<210> 5762
 <211> 226
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316004h04b1
 <400> 5762

tgctctgcca gtgcttctac tggctctcct ggatgtgttt tcaactcttt caatgggtag 60
 agctgacgtc ttcctttagt gccttcgggc agtgctactt gtagtggttt ggatcaagag 120
 ttacactgtg ttagtgtagt gcagttatct gttgttctgt ctagtctttc gaggtttcagt 180
 ctgtcagagt tagtgggtgt tggctcgtctg tcagtctaga tcgcga 226

<210> 5763
 <211> 222
 <212> DNA

<213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316004h07b1
 <400> 5763
 ggagagaatg gccgccgtgg ctgggggggca ggatttgtgg cgggggtcac ggcgtccatc 60
 agcggcgggc tcccagtgag gatcaagcgc gcttcgacgt cgggtgcaga cttcaataa 120
 ttactagtga taaattggga tgcgctaaca atgtacataa gtaggagata tcagtaggat 180
 agttgtttct ttaataagaa aatcaacgct ctcatcatcg aa 222

<210> 5764
 <211> 344
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316004h10b1

<400> 5764
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 gggcatgcat ggtacctccg cacctgtcaa tggttactga atatatggaa atgggatcac 120
 tgtactatct catccatatg agtggtcaga aaaagaaact cagctggcgc aggaggctga 180
 aaattattcg tgatatatgc aggggattga tgtgcataca ccgcatgaag atagttcaca 240
 gggacctgaa aagtccaac tgtctgggtga acaagtatcg gactgtcaag atatgtgact 300
 ttggcctttc tcgagcgatc acagatagtc ctatgactga ttac 344

<210> 5765
 <211> 285
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316004h11b1

<400> 5765
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 ttctgcacca ttactacatg gcccaagttc cggttgtcgc tacgcttcac cgaggttctc 120
 tcccttcttg atatatctga agacacggac gatgcctgat cgagggctga tcatggattc 180
 ttgaggaagg aactagtaca ctaagatcgg atcggtaaat atatacatc atatgattaa 240

tatcattatc aattaatggc gctttataacc tgagttttct gtatc

285

<210> 5766
<211> 323
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006a02b1

<400> 5766

gtctgctgct tatggcctgg gcatgtgtgc agagtgtggt ggttctgcac tgaggcctca 60
tactggggcg gactgagca gattatacaa cgatcatcaa catcctaata cattggatcc 120
ggataatgcg atggcatatg acaattcctg atgcgctcct ggaaagatat gtcaatttca 180
tcgtgagagc accgatgcat ctccaggtcat tcccgcttgg gtaagaagaa cgccatcgaa 240
aaatgaccta gctgaggcca agactgtgca tcaacagatc tgtgcaatgc tcgagaagtc 300
cgacagcgag ctttttaggcc ata 323

<210> 5767
<211> 367
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006a03b1

<400> 5767

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tactggggag gactgtcca gattatacaa tgtaatcaa catcctaata cattggattt 120
ggataatgcg atggcatatg acaattctgt ttgcgctcct ggaaagatat gtcaatttca 180
tcgtgatagc atcgatgcat ctccaggtcat tccgtgcttgg ttaagttgat tgccatcgaa 240
aaatgaccta gttgaggcca agattgtcca tgaacagatg tgtgcaatgc ttgagaagtc 300
cgacagtgag ctttttaggcc ataataatca acatcttcca aagattgtat ctacttttgc 360
agagatc 367

<210> 5768
<211> 163
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006a09b1

<400> 5768

gaatttgcgg gtcgccccaa acattggggtt accaccgtct acccgcggcg tgaggggacc 60
atgaaagagc caggacctca gctgctgtgg ggtgaccatg atgggtgacc gtcattggcaa 120
cgggctgcac gatggctcca gggggccaat ggacttttgt gga 163

<210> 5769

<211> 197

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006a11b1

<400> 5769

ttgtccaacg gcactgcgcc gcaagagctt acgatgactg aatcagcagc actgctgccg 60
gaggcaaaca cctgatgagt tcgcgctccga acaacaggca taatcatggc cctatggagc 120
cattgattct ctgtggagga gcacataagg gacgaggaac tgataggccg catactatcg 180
ctgggggaac aaccgaa 197

<210> 5770

<211> 281

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316006b02b1

<400> 5770

cctacgcttc cgcaagtctg tgtagtaaac agtctcttga tatttccttg aaaattcatt 60
gccgccaagc gtnaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaatgggaga aaaaaaaaaa aaaaaggggg ggccttttaa aagaaacaaa ataaacaacc 240
cgggtgattgg aaaacaaaaa ttttttaaag gggcaacaaa a 281

<210> 5771

<211> 328

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006b11b1

<400> 5771

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gaggatcaaa taagaaatcg tgtaccgaaa gcatgggaat ttctttcact tgttcataat 120
gttgtaata agtgctccca gacacacata ctggactgga tgacgtctct tgatgccttt 180
gcctaagtct tgtatctcgt cgttactgtc atgagaggct aaactaaagt aaataacacc 240
agtcccagtc cagtatatata tagtagttcg atgtgctact tgtcttattc agtgtttggt 300
ctcccaaaca caaaaaaaaaa actgatag 328

<210> 5772

<211> 312

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006c09b1

<400> 5772

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ggctctcccc tcatgggtcac cgacttccgc aagcggatct tcggcgacca agataacgct 120
gccaccgcca ccaaaggag gttactagag atccggattt cgactgggat gcttgcatc 180
gcagttgcga cgacaaagat gctctcccaa tcaagaagga gcgagagaac aagaaagacg 240
gcgtagtccc accggcgaag taggcgctcg tagtgagctt atactagcgc gggttcctttc 300
caaacaaata at 312

<210> 5773

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006c11b1

<400> 5773

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cagtatgcaa tcagggcatt tgctgatgct ttggatgcca ttccactagc tttagctgaa 120
aacagtgggt tgccgcctat tgatactctc accgtcgtaa aatcccaaca tgtcaaggag 180

aacaattctc gctgtggcat cgattgcaat gatgttgga ccaatgacat gaaagagcag 240
aatgttttcg agactctgat aggcaagcag cagcagatct tgctggcaac acaggtggtc 300
aagatgatcc tcaagattga tgatgtcata acgccttctg agtattgatg acgccttcaa 360
gaacggaatc gactgtgcta agtggcatgc actccattag tcagcatatt ttatatgggt 420
tga 423

<210> 5774
<211> 370
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316006c12b1
<400> 5774

tcgtttccca tcaatccatc ttccatgcg cattcatctc cttagagcag ctctctctct 60
ctccattgct gctctgctcg aagatgaagc tctccatgca gtcgctggcc cggaagctct 120
ccatcccgtc gccaagcgg ggcaagaagc accagcggca gcatgacggc ggcaagcgcg 180
tcatctcccg gagcgaggcg ccgtcattcg cgtctgctg ctactactgc accacctcgt 240
cctctgcga ggacgcgctg ccgcgggct cgacaccccg gtcggtagct gccgcggag 300
atctcgcggc agcagctgga ggccgtgctc cggcggctgg gccacgagga gccctccgac 360
gacgagctcg 370

<210> 5775
<211> 311
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316006d01b1
<400> 5775

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gaagtccacc atgggcacta cagtggtaaa cgagaaggtc aaggagatgg accagaagtt 120
ccaggtctct gacaagacca agtcggcgct ggctgcgcc gagcagacgg tgagcaacgc 180
cgggtctgcc atcatgaaga acaggtacgt cttcacgagc gcgtcgtggg tcaccagcgc 240
gttcggcaag gtcgccaagg ccgccaccga cgtcagcacg atgacgaagg agaagatgct 300

agccgaggac c

311

<210> 5776
<211> 281
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006d09b1

<400> 5776

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gtgacgactg ccgctactac tacaaggcgg gggccaggga cgccatcatc agggaaaacc 120
cccaggggcg cgccgccaag aacgcccgga tctgagcaac aggacacgac gtctacgcgt 180
acccggggaa acatgaagca ccgagaccac tctctgactg tgtctactga gaaacagtaa 240
aggcgtgcgc gagagcttct taaaggtgaa aaaaacggag a 281

<210> 5777
<211> 278
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006d11b1

<400> 5777

tgggttatct ccggtcacaac tgctgggtgat gctacaatag atcattatgc tggagtgggtg 60
ctgcttgctg tcagggcata ggctgatgct gtgcatgccca ttccactagg ttcagctgaa 120
aacagtgggtt cgccgcctat ggatactttc accgagatga actgccagca tgtcatggag 180
aacaattcta gctgcggcac cgatgagcaa tgatgtgagg tgccaaagac atgaaacagc 240
agattgttgt ggagactctg atagaggagc ttgatgac 278

<210> 5778
<211> 310
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006e01b1

<400> 5778

tttacgtgtt cgcccacgcg tccgcggacg cctgggggct gagcttgagg ctgcagcggc 60

acagccactg cctgatgacg atgacgatct gatcgagtag agagaggatc atgagtcttg 120
tctgtcttat caatcaatac tttgagagcc agagactgtg cgagtcgggt ttaggctgaa 180
ggcttgatcc ggagtagtca agccggatgt ttttcctgtc tgccttgccct tgtctgggtg 240
gctgcaaact gtttgtgtga cattgatcta catcatgttg cttgccatgg atttgatggt 300
ggccaaaaac 310

<210> 5779
<211> 160
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006e02b1

<400> 5779

gtttgatctt tactactcac ggacagaacc acaagcacca caagtgagt accatcggag 60
caaggtaaga ccaggagaga tgggaacgcg gtctattgtg gtgctgggcc tggcgagggg 120
gctgagcagc tcctgactgc gaggtggcgc ccgatcgggg 160

<210> 5780
<211> 183
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316006e04b1

<400> 5780

cttactgtgt gggcggaatt tgagttccaa taaaccaatt acaccttcgt cgttcacttg 60
aaagattgta ttattagaaa cttcatacaa ggctgggctg tttgtattac cgtcgctttt 120
tgcggaactt gtgctataat tgatttaaga agtgcatagg ctaaaacata aggagcacan 180
ant 183

<210> 5781
<211> 296
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006e06b1

<400> 5781

gttacctgtc agaacggcgg cagcgggtggc ggcacgggag gtggcagcgg taatgctggt 60
gcataccctt aagttatgtc tatttatgtg atagatctga agatggagcc cagaatttca 120
tgtgttttct ttctttctgt ttgcaccttg tggccccgct agtttgccggc gtttaagttc 180
ttgtatgctt tctcatgtat actagtatgg atgaatcaat caagggcccc atcaacttgt 240
gttggtcaaa agctgaaaga ggagcttgat gacacgaggg ctaagcttgg cactag 296

<210> 5782

<211> 394

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006e09b1

<400> 5782

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caaagtccgc gagatcgtgg agcagagctg gactgctgac taaggcaggg cgaggcgggc 180
gctgccagaa agttgcaata agcaaccatg aaacctttgt ttatggctct ctatagttgg 240
ttcttagatg aaatattaaa catctccagt gattgcttgc aggtcaaacc gtcaaagtat 300
ctttagtctc cgtggtaatt atgtgttatg tctcgtggca ctgctctcat atgttggtgt 360
gatectgcct catgaattta ggggcacccct atgt 394

<210> 5783

<211> 412

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006e10b1

<400> 5783

tcgctataca ctctctatca gtcacgtcag gctcgggtgga tcacggtagc actagcttca 60
gctagccagc ctctgccact ccgggcattt tcttgcatcc acgacggcaa tggccac:cgc 120
tgatgtccag aaccgcagcg ccgcgctgac ggaggaggcg cccacgggtg agacgcc:cgt 180
cgccgccgag gaggtcgcga agacggagga ggcccccgcg ccggccgagg ccgaggt:caa 240

ggcgctgct gccccgctg aggtcgagga gaccaaggag gtggcacctg ccgccgctga 300
gacggaggag gccaaaggagc ccgagccagc agctgcggcc gagccggagg ccgaggcccc 360
caaagagaca gaggcgccag ccgtgggtcga gacagagacc aaggaggccg tg 412

<210> 5784
<211> 435
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: uC-tsro9316006e12b1
<400> 5784

tcggtgtcag actaccattc ggaaaagcct catatactgg actacagtaa atatccagat 60
atcgatgagc agagggcgttt cgtgaagact tacctgagca cttctcgca ggaacctgaa 120
gcggaggagg tggagaatct gctccggagc gtggagaagt acacgctcg cagtcactctg 180
gtttggggac tctggggaat aatatcggat cgtgtcaacg acatcgactt cgattaccag 240
gagtacgcaa ggcagagatt tgagcagtac tggcagaaga agcctgccgt cctaacctca 300
tgaatagctg tacctatggc tctaggaact ccctgagggc ctgtgctgct gcacacaaac 360
tgtgcagtgt tactaacaca catatcnct ggctgggata atgacaggaa ggatatgaga 420
gaagcatact attac 435

<210> 5785
<211> 247
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316006f02b1
<400> 5785

gttacatcta aaaaaacaaa aaaaagagaa caaaaagaaa aaaaaagaac caataatgct 60
gatagataaa ccaagaagag aaagagaacg aacaactagc aaaaaacaat ggacataaaa 120
aggggggtgcc tctctgggga ggccaacatg acgaacgatg aactgaaagc ccagtctctt 180
tttattgggt gaacaaatga aacttaatgg gaggtgtctt gaaacgaaag aagaggggaa 240
accccg 247

<210> 5786
 <211> 330
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsro9316006f04b1

 <400> 5786

 cttcttttct cattttgata acaagtatth cggacggag ggtacttcc ttcgtcccac 60
 aatgtaagac gcttttgcaa cctatthtg gacggaggga gtattcgctt gctactacta 120
 cttggtctgt atactgtagt agtgcttctg ccctggatgt gatgtataaa ctgcctttgt 180
 ggccagataa gataagtctt tgaattctca tcggacaaag ttatcgcccg gtgcatgtgg 240
 tggagaagga caggthtgga ataaaagthh ctacagthh ttcctcggt aaaaagacaa 300
 agataaaaaa cgaagagact gagaaaaccc 330

<210> 5787
 <211> 392
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsro9316006f10b1

 <400> 5787

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 gccgtcactt tactcgccgc cctggccgcg cgatccgacg cggaggtcat caccctcacc 120
 gaagagacct tctccgacaa gataaaggag aaggacacag tatggthtg gcaattctgc 180
 gtcccttggt gtaagcactg caagagccta ggaactctt gggaggacct cggaaaaggct 240
 atcgaaggta cggatgaaat tgagatcgga gaagthgatt gcggtgcaag caaaccagtc 300
 tgctcaaagg tggacattca ttcataacca acattcaagg tgttctatga tggcgaagaa 360
 gttgcaaaat ataaagggcc tagggacgta ga 392

<210> 5788
 <211> 254
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsro9316006f12b1

 <400> 5788

tgggttaccc cgcggacag gggcgaggag tggaccatga ctgactctga acctcgggga 60
 ctgagtacta accgtgggta ggcttgggtcc gctcaacttg catgatgatg gtccctccac 120
 gccattggat gtgtccggag gagcacatga gaccagaaaa gctgctggtc gcgctaattt 180
 caatggcaac acgcctgagc caaccatgga cctctgcgga tacgaaagga gagactggga 240
 ctacgatgat agca 254

<210> 5789
 <211> 434
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316006g10b1

<400> 5789
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 cagaagatct ggctgaattg gaagcaaagc tggatgcgga ctttaagact aacaaagggg 120
 aatcgaaaaa taaatcaaag gcaactgaag atacaaagaa aaagcaaagg ccattttctca 180
 tgcagttctt ctgcgaattt ttataaagg cattttccat cactttcttt ggtgagtggg 240
 gtgacaagag ccagattgct acaattggct tggctgctga tgaaaacca ttcggcgctcg 300
 tcatcggggg agtcatagct caagcactct gcactaccgc tgccgtgatg ggagggaaga 360
 gcctggcctc tcagatatcc gagaagatgg ttgaattgtc gagcggngtg ctattcctgt 420
 tgatcagcat aatg 434

<210> 5790
 <211> 388
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316006g11b1
 <400> 5790

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 tgaggtggcg ggacaggggg tgtcctccca cgaaataagc ttaaaatttg ctctcaagtg 120
 gattggaatg gaatgccaga cagactcgca aggatgtatt ttgtgctatg ttctttaagt 180

actgttgcct gttgggtagc tggtcggggt atcttgtacc ggcgtagtcg tggggagcag 240
catcggtttt acctggtttc tagtcttacc atggaattta ggggctttgt gcaaattctc 300
gctttgcctt gcggattgct tgtatgctag ggttgtgttc agctacaaaa tgctggccgg 360
aagtacattt tgtggattcc aattaaat 388

<210> 5791
<211> 361
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316006h03b1
<400> 5791

gttcatttcg gtgagcgggt tcaacaagac ggggctgccg ggcgccatct ggaacttcat 60
ggcgccctac tccaagggtg acagcgccgg cggcatctcc gtgctctgcg tcatcatgct 120
actgctcttc aacctggcct gcaacgtacc aacagtgtcg ctgatgggga acgaggtggc 180
gaccgcagca gccctgatct cgccggcagc ggtgacgcgg ccgtggctgc tgctggcgtg 240
ggtgagcacg gcggcagggg atctctcgct gctggggtcg ggggccaacc tgatcgtgtg 300
tgagcaggcg cgctggggcg cgcgtagccc tatgagctca ccttctgaac cacctcatct 360
t 361

<210> 5792
<211> 302
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316006h05b1
<400> 5792

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gatgataaat gaccatgaag agaaagagaa caaacaattg agggaaaaaaaa tggacataaa 120
gagacattga taatatgagg aaggagaaca tgacaagggg gggcctgttt ggaggactca 180
agtttatggg cgaataaatg aaaccgaata gtttttctat gggggaccaa aaatgaaatg 240
aactggccgg ggttttaaaaa tgaaagaggt gggaaaaccc tggagtccca aatttaaact 300
gg 302

<210> 5793
 <211> 459
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsro9316006h07b1

 <400> 5793

 tttcgttcac gcgtgcggcc acgcgtccgg tgccaacaga tcggttaaata ccccccaaa 60
 acgcacccac caccacaact ccggcgggcg cgaccagacg aacacgagca ccaaggcgat 120
 ggcgactgct ctcaaccgcg gcctccgctc cgggatccga ctactcgcca ccggcgccga 180
 ggtctccaag ccagcttcac gtggattcca tgctaccggc gtgaagagga tgtcagggca 240
 cggccatgat gagccatact acctgcacgg ctagcacatg tacaacttgc acaggatgaa 300
 gcatcagaag ctgactgcat ggacttcggg gctgggagcc gtaagcattg gtatcgggtgt 360
 cccggtcttc gcggtcgtct tccagcaaaa gaagacctac tacgatgagc tcacataccc 420
 tcccagggcc tacttattgg acctattttg aattagcat 459

<210> 5794
 <211> 312
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsro9316006h08b1

 <400> 5794

 tttcgttcac gcgtccggaa gacaatgcgg ttggctctca aatcgacagg aaaaaagagg 60
 gctgcacctg atgacgacga cgacgacgag attgagatgg accctgaagg ccgtatgatc 120
 attcggaag aacgggaatg gcgtaaaaag aaacccgctc tctcgcatga ggaggaggct 180
 gatgacaaga cctctgtcag aagccagtcg gtgaagagga ggaaggtggc cagcactggc 240
 tggtcctaca ccggccatga gtacaccagc tagaaggccg gcggtgatct caagaagaaa 300
 gacaagatgg ag 312

<210> 5795
 <211> 193
 <212> DNA
 <213> *Triticum aestivum*

<223> Clone ID: uC-tsro9316006h09b1

<400> 5795

cttacgcgtc cgcgagcg tgggccatcc cagaagacag gactggaagt gtttagacgg 60
tcctgccccca atgtaaaata ttcaagtttg taaatgctta tataatgcgg acatggagca 120
tgtgatcccg agctggggaa aacaggacca aagatgaact gattgcccg ctgctctcga 180
ctagagcaca aac 193

<210> 5796

<211> 185

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007a04b1

<400> 5796

ttcttgtacg cgtgggggac cacaaccga gcggggcg tttagcaaca ccaccgcac 60
cacaccggtg ccaaagaagt acgcgctttt tggggtaacc tagaaaacca acggcaggaa 120
cctaacaacg gccactaccg ggaaagctta ggccaggac ggcaccgcgg atggacctca 180
ccaag 185

<210> 5797

<211> 139

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007a05b1

<400> 5797

tgctacgcga ccgccacgc gaccgccag gcgtgctttt acgcgaccga tttttcgtca 60
tcacagagaa aagaaactgt gcttgtgttt taaaaaatt caaacaccta ctgcaatttg 120
gtcaaccaca aaaacacta 139

<210> 5798

<211> 374

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007a06b1

<400> 5798

ttattacccc ataccaagct catcccgggg tcttaaactct tttgggttca cagatccgga 60

ggatgtcttg aactgaggat cccgctgcag ctgcggctca aactgcaagt gcgggaagat 120

gtaccatgat ctgacggagc agggcagttc tgccgtccat atatgccgcc gcaactcgacc 180

tcagagcgag gcctgagaac aaggcggggc agatcgtggt ggccgtcggg caagccggcg 240

agggctgcaa gctgcggcga caactgcaag tgcaacccca gcacaggtaa gctggatgca 300

ctcacaccaa cctgtgttgg tgagagagta tacgaacata accagacgtc gaatcttgat 360

cgaaacccat ccac 374

<210> 5799

<211> 241

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007a07b1

<400> 5799

tcttggtcac ccccggcgcc cgggcgcccc agggggaccg tatacaggta tccgcgcgcaa 60

tgcccgcggg agagaggcga cgggtgcga ccgaggaagg cctaccaata cgaccaacct 120

gccggcgaag atgctcggac ggcaccccaa gaagagcgaa aacaccgaga gccccaggc 180

gctcggggcg ccacaaaacg ccccccaaga acaagctcaa caaggcctac cgcacgycg 240

g 241

<210> 5800

<211> 150

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007a12b1

<400> 5800

tttaacaccc caaccacaa ccagcagagg aggagaataa agagagagac cgagagaaag 60

agcccacaag ggcggaggcg gcggcgacg ccacaaaggg ggcaaacacg accggcacga 120

gccaacggag ccgcgacgag aagaggacgc 150

<210> 5801

<211> 183
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316007b01b1

 <400> 5801

 tctccacgcg tccggagctt tctacctatt ggatttatatt tagttgtatg gtctctgatgt 60
 gctctaggaa ccactcttga tatcttcggg ttgtgaacct ttttgcgacg ctgagatgga 120
 gctgtcatatc agataatact tcatatggat gtactgatgg acattcatgt ggattatggt 180
 ttt 183

<210> 5802
 <211> 635
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316007b04b1

 <400> 5802

 gaaaaaggag aagaaaagaa ggtacagaaa aaaagaggga gaaaaaaaat aaaaaagaaa 60
 aagaaaaaaa aataaaaggg ggagacagaa aaatttnggg aaaacacaaa gaaagaatga 120
 aaggaaaaaa aaataaaaaa agaattttta aaaaaagag aaaaggaaaa gaaaaggggg 180
 gaaaaaaa aaaaaagga gaaaaagaaa aaaagagaag gagaaaaaaa aaaaaa:aaa 240
 aaaaaaaa aagaaagaaa agaaaaaaa aaaagaagaa agagagaaaa aaaaaa:aaa 300
 aaaaaaacgg aagagaaaaa aaaaagaaaa agaaggaaaa aaaaaagaag agaaaagaaa 360
 aaaaaaaga agaaaaatga aagaaaaaag agaagaaaaa aaagagaaag aaaaaaaa 420
 aaagaaagaa agaaaaaatg aaaaaaata aaaagaaaaa gatagaagaa aaaaaaaa 480
 gaggaaaaga aaaaaaggag aaaaagaaaa aaaaaagtga aaaaaagag agaaagagaa 540
 aaaaaagaag aacaagacg aaaaatagaa agaaaaagaa agaaaagaaa agaaaggaaa 600
 aagagaggag aaaggaaaaa aagaaaaaga aggaa 635

<210> 5803
 <211> 78
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316007b08b1

<400> 5803

ttaatgacca ccccccgat gggcaggtga tagggaaaaa cttggaaacg ctgccgcgaa 60
aactcaacgg cttcaaaa 78

<210> 5804

<211> 327

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007b10b1

<400> 5804

ttttgacccc accaccacct gtacgtatag cggagattat ttaactaata ttacgatgag 60
aaacacaaaa taatgcaatg catgaaagcc caatcaccat tatgccgaca caaagcagaa 120
tagtacagcg ggctttggaa gtggagagca cagaacacac gccactgccg agtgctggtc 180
cattcagaca cctgaatggt ttgcaggaga cactcaatga acggggctct ggccgggttcg 240
gggcgtctac taggggggac ttcagagaac accatgattt agcaaattct gcgttcaatg 300
gggcaactac cttgacacaa aactttg 327

<210> 5805

<211> 296

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007c01b1

<400> 5805

tctacgcgta cggaccttgg caagcgctgt gccaaagtct atgaggctgg tgcccgc:ttt 60
gccaaagaggc gcgctgtcct taagattggc cctaccgacc catacaagct tcattgacca 120
gaatgctcac ggtctggctc gttatgcat tatcttgcca cgagaatggg ctggcgccca 180
ttgttgagct tgaaatcctt tgtgatggac cctcatgaca ttgaccgctg tgcttatgtg 240
accccgatgg cactgctgcc tgctcaaggc tctcaacgac cagtatgtcc tccttg 296

<210> 5806

<211> 98

<212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316007c03b1
 <400> 5806
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 aaaaccagc attaaacgag tcaccatacc taagcaac 98

<210> 5807
 <211> 320
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316007c10b1
 <400> 5807
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 gccccagct gccaccatgc agaatgaggt gggcgacatg gtggacactc acgccc:ccag 120
 gaagagctcg gtcaccaaca ggatcatcac ggccaaggac cagccttttg ctcatatcaa 180
 cataggtaat gcagatgaga atggactgta tgatggccgt ttaaccacct tagctctgaa 240
 tgggctcgtc cggactcagg gagatgctgt tggtagccctc gacaggccga ggcagaagag 300
 gaaggctgag atcaagcaga 320

<210> 5808
 <211> 427
 <212> DNA
 <213> *Triticum aestivum*
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316007d04b1
 <400> 5808
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 tctcaa:atgc aaacctgggt atcatcagga ggctcagaag ttctatctca tacattgacc 120
 cgtcatatgg agattttgca agaccttacg caggaattct atcggcttcg atctagtctc 180
 agagtgaagc aacagcatgc ttctctcctt gacttgagag actttgacag agcaaagttt 240
 gacgtggaag agtctgggga ctcagaacaa gctcttctta gagaacaagc tgcaatcagc 300

aggaattctg gacaggtgga cactgtgata tcacaagctc aagcaacact gggcgctctc 360
 atgtaccaag cgncaacgtt tgggtggcatc actacaaaa taagcaacgt cagcagcccg 420
 atccccca 427

<210> 5809
 <211> 388
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316007d05b1
 <400> 5809

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 ccggcagcaa ggcactgctg ctactcctgt gcgcggcggg ggtgctgctg accccggcct 120
 ccgaggggga ggacggctctg accaagttca agctgtattg gcacgacgtg ctggcgggga 180
 cgagcccgac cgcgatccgg attgcgcagg cggagtgcag caacagatac tccaccttct 240
 tcggtgcgga ggtggacatc gactaccggt tcaccaccgg ccccgccgtc acgggggtcc 300
 gccaaatcca aggacgagat cggtcgcacg caggggacct acacgttcgt cgaccaggcc 360
 accttcgggtc tctcatgaa catgagct 388

<210> 5810
 <211> 382
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316007d10b1
 <400> 5810

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 tggagtccct tacgatcaat gtgaaatctt gaaccagttg catgatgtct taccctgtat 120
 cttttaggaa gttttttgct caaaccagct gttgctgtcg gtatgcagca tctgggtgca 180
 caaaccagtg gtggatcagt gtgaaagatt gttttatggt tctcatcaat gtgagattgt 240
 tctatgctta aaaaaaaaaa aaaaaaaca ataatttatt ataattaaaa cataatataa 300
 gttaaaatat tttgtcttgt aaatacttat ttttcttaaa aatcaggggc ggctcttcta 360
 atggatccaa gtttttttac cc 382

<210> 5811
 <211> 349
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316007e04b1

 <400> 5811

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 tacacaggcc actaaagctt aggagatcaa ggacgaagag atggcggaga gcaaggacta 120
 ccttgccctac tacttattct agaagagctc attaccactg atgaacagca cggatcacat 180
 tgttctattg cacgcacaat ttgatgcct tgcccacagg gtacgcgaac ctgcactagt 240
 ttgatagaaa tgggatgcat gtgttacttg ctgtgcatgc gatgatttgg ataaactaat 300
 atgcactaac taatttccta aataagatgt aggcttgcca gcttacaat 349

<210> 5812
 <211> 152
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316007e12b1

 <400> 5812

 gtcgtaccag ggtggagacg aaggccgagc gggggactta tactaccatt cgggtcttcc 60
 ccaaaggccg aggctggccc aggaatcgcc tgacacctga caggaatcag actagcgtct 120
 ggtacaccag aggctcgccc gggctcaacc aa 152

<210> 5813
 <211> 304
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316007f02b1

 <400> 5813

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 gcggaggctc tcgtgccagg tcagatatgc tatgacctga aggtgagggc tcatggtcgg 120
 cgcacggcat gtgaggtgga gatgctgttg gctgacggg gtgtggcaga ggagatgtgg 180

cctgatctgg tgggggcggg gtcagcggta ggtttttctg ggttctcag ttcaggtagg 240
 tggctgctct gttattgtta gatcaatatg gagtctttgc gagcatctag ctttctgtca 300
 ttcc 304

<210> 5814
 <211> 237
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316007f03b1
 <400> 5814

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 cactgggaga tgacctocca ccaattgacc accacgttta ttagatcaaa ggagtcaaaa 120
 ctacaaaaca caggatgatg ttgatgagta cattttacatg taataatcct tatgtttgca 180
 caaagtgaca gttcatgtac cttttgacag caagttcaag gtggttgccat tcttcgg 237

<210> 5815
 <211> 51
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316007f04b1
 <400> 5815

tttattgcac gagatcgca ggcgcgctca tgggggtttt tttaggaacc t 51

<210> 5816
 <211> 324
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316007f06b1
 <400> 5816

tgagatatat gagttgtgac aataattgat gtaaaatggg ttgtcagttc aaactgcatt 60
 agtccagatt gcagcaattc gaactaccat tcaactgttg aagtcttgaa aacatgttgt 120
 taaaaaaaaa aaaataaaaa aaaaaaaaaa aaaaaataaa aaataaaaaa aaaaaaaaaa 180
 aaaacaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tataaaaaaa aaaaatgggg 240

ggccccctttt aaagaatcaa aatttccttc cccgggcttg aacaataaat aattttttta 300
 tgggcaacca aaattaaatt aatg 324

<210> 5817
 <211> 252
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316007g04b1

<400> 5817

ctttataccg catgctgccg gaatgggtgcg ggggcccattg atccagaact aggcctggtc 60
 ctccaaccac acggtgatca gcgtcgaaaa ccgtccccac ctgcccctag tacaggctgg 120
 actagcaaag aaagagagcc cgaagactca cggctcttag gcaacacaca aatgctcgtg 180
 tgctgacacc gaagcctgga agtacgccga tacttggcat agtgacacca aagaccatct 240
 gaaccgctag aa 252

<210> 5818
 <211> 319
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316007g06b1

<400> 5818

ttgttaaacy cttctctcga accttttcga tggggcaggt catgctgttc ccgcagttcg 60
 gctcaagcag gagatgcatt ccatcaaaac tgaacggggt gctcgcaagc tttcgcatgg 120
 cgaagatgtc ttcttgaagc ccggccaggt ccgactgaac tggaccgctg gaccggaggg 180
 tgacctgaag ccgtggtagc aactctcgca tggcgggttag gagatgtata aaaacctaact 240
 tgaaaataaa cattgtcaga ccttgaatac tttgcgcctt tataccacca tgggttgaca 300
 gtgctgacca taagtcaaa 319

<210> 5819
 <211> 485
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316007g07b1

<400> 5819

tinctgaagaa agcctcggcc accggagctg ctgcaggtct tctatcgagt atggacaagg 60
tgctggcctt ctccatcctg agcgccctcg cgcgcgacat cgcccccggc gccggc:aaag 120
gcggcagctg ggccccggctc tcctggcggg ggaggaagct gcaggagggc gaccgggcag 180
gagcagagca ccaagggaag cagggaggcc tgccgcggga ggcagagcaa cagcccggca 240
aagggaaatc gcagtcgccg tcaacgttgc cgccgcggtt tgcgccggag tttgatggga 300
tcgactgctt cgagaccatc gtgtgccatt gatcgctgat gaatcgcgat ctgctcgtgg 360
tccagccggg cgtgtggcta cggactgatt ctttctccgt ttgtcggccg tacgatcggc 420
gtgttcatac gtttcttaac ttgtgcttct aactgaagcc ggatgcttga cagaatacag 480
agtta 485

<210> 5820

<211> 273

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007g08b1

<400> 5820

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gaccaatcaa gaacatgtgt gaaaattttt cccggaaggc aggggaacaa gaatactgga 120
ggtgccaacg atctctcgga ccagacctg aaaaacacta gattctccgt caacgcactt 180
gctagcttcg cgggtgtgat cacctactaa gcacgactgg atccaccaa cggcctctgg 240
caagatgata tagatgggca aaagactgga cac 273

<210> 5821

<211> 434

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007g11b1

<400> 5821

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cctcgcctac cgactaggag gagccgccgt acgaacgacc tccaaccacc accgtcggat 120
cctcgccccc gatcccaaaa ccgcgcgcgag gggcaccacc accggcgggcg ggtacgctga 180
gatgagctgg ctcggaagc tggggctggg gggcggggga agcccgcacg cgtcggaggc 240
gacggaggag ctggcgcaag ggcccgacga ggacaagccg acgcccgggt gcgagatcgt 300
gcagttcgga gccggctgct cctggagcga agagctgggt taacagcgcg tgcccgggggt 360
caccgaccc aaggacggat acagtcagt cgcctttaag accccaccta caggacgttt 420
gaccggagcc accg 434

<210> 5822
<211> 419
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316007h02b1
<400> 5822

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ttagaatggc ggcctactac agcgccggca ggcccatgta ctactccaac accgagaggt 120
ccttcgacgg cggcaagacc gtgtactcca ccaccaccga ggagtgtac gacgctggca 180
agctcggcca tggtaccggc tacggccagg gtcagagcta tggcaatggg gggaccaaca 240
tgtactcaa caaactggc gtcgactcca gcatgtacgg gcatggcggt ggcggcggtg 300
gcaggaccgt gtacaccacc accaccgacg agtgcttcga ctccgtcagg cccgggtatg 360
ggcagggcca cggctactgg cacaacaacg gtggggccat gccgtacacc accaccacc 419

<210> 5823
<211> 421
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316007h07b1
<400> 5823

actgcgtcgt ccacgcgtcc gccacgcgt ccgaaacgga tcgtctctcg attgttcgct 60
cccgagcacc gacccaaccc tagatctcgc agcagcaagc gcgaagccga cgccatggcc 120
aagccctggg gcggcgacgg cgctggggcg ctcgacgctg agcgcgagga ctaggagcgc 180

gagcacgccg tggactttca cgcgcccgac ccgtccgacg acgcggggcg cgccgtcagc 240
 tttcccagcc ttaaggaggc cgtcgtagcc ggcggcgga agcagaagaa gaagaagggg 300
 accacccttt cgctctacga gtttaccacc tacggtgcgg acggtgcgcc tcgccgagta 360
 gtccccgccg agcccaaggg cctcaccocg catgagatga tgatgctccc caccggccccg 420
 a 421

<210> 5824
 <211> 270
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316007h09b1
 <400> 5824

cattaacgac tctgcccgtt gccgaatth tttgttcacc accggcgata cggagcgtga 60
 ggggaccttg attcaaccag caccgctgac gccgcaggc tgaccagaa gagtttcggg 120
 ttccaacaac tggcccactc atggcccctc ggggccattg catttctgcy gcaggaggte 180
 ctgaccaatg atgaactgta agcccctctc cactagctgg gagaacacct gaaccgcgat 240
 gataccctga ccgggacgaa agaagaactg 270

<210> 5825
 <211> 83
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316007h10b1
 <400> 5825

ggggacgcgc ccagaaagg cgcaccaagc gcggcggtg tggcgagcac ccacagagag 60
 accaaaacac tagacagacc cac 83

<210> 5826
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316008b02b1
 <400> 5826

tttctgacgc gtgggcgcgt gatgatggag cagctgctgg atgcggcaaa gaagatacat 60
 ggagccggca tcatccatcg ggacttcaag cgggagaacg tcatggtcgg cttcttcggc 120
 gggctcaagg ttggtgactt tgggtcggcg attcgggcga agccggccag agtgccctat 180
 gaggagtgtt gtgtcggcac cctgatttac acatcgccgg agcagctgga aggcaaccgg 240
 tactagggcc aggccgtgga catgtgggcg cttgggtgca tcatggcaga gatgttggcc 300
 ggccgggaccc tcttcgtggc ggagacagag gaggagctgc tcgccgagat ctacaagctg 360
 cgagaccaga tcacttctac ggggaagctg gatttggagt tcttggagga gctttcagaa 420
 gccgggcatg 430

<210> 5827
 <211> 306
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316008b03b1
 <400> 5827

gaacccgaac aacaggccgc ccattttaaa tccggcgcgt gggttcacca tgattgactt 60
 agtacggttg atgctgctca ctgaccctga tgagggcccg tccgggcaac tggcgttatc 120
 atggggcttc cgtgccaaag gatgaattgg gaggaggcca tgactaaaga ggaacagaac 180
 ggccccctgc tgtcgggtggg agaacaactg aaccaggatg tcagcctcac ggggacgaaa 240
 gaaaaactgg ggcttcttac gccagagctt aaataggcgc ttggcgacac taggcctaag 300
 cttggc 306

<210> 5828
 <211> 513
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316008b05b1
 <400> 5828

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 tcaagtaaaa atgattcaaa ggatgatgag tgggcctcct cagatgatga tgcagatgcc 120
 atggaacagg atggtgactc agaagctgac agatcatcag tgagtttcaa agagcatcgc 180

tcatgtaagc atccagcagc gtaatggctg caagagcctg accactgtcc agggcctgaa 120
gaaggagtgc agctacagca agatcctcaa agacctcaag aaagagtttt gctgcaatgg 180
tacagttgtc caggacacag aacttggaca ggtcattcaa ctccaggggtg atcagaggaa 240
gaacgtctca aacttccttg tccaggccgg cattgtgaag aaggaacaca tcaagattca 300
tggtttctga acaactgcca gctccatata agagtctaca tgcaaagcag ctatatattg 360
gtgggtgcagt atatttagtt gtgtgctagc gcaagcaggc gttaccagct tgcgcgctct 420
gagtatacgg aaaatctagc atagcccacc tctctgcgtg tatgcttggg accctngtgt 480
tgaaaacttg aaggagcac catcgtaga 509

<210> 5831
<211> 435
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316008c05b1
<400> 5831

ctgctcacgc gtccgaaaaa aaaaaaaaaa aagaaaaatt taaaaaaaaa tgggggtcaa 60
aaaaaaaaaa aaaaaaaaaa ataaaaaaca aaaaaaaaga aaaaaaaggg ctggcctttt 120
atgggtccca aattttacttt cccgggctgg gataaacaat gattttactt tgagaaccgg 180
tgggtccctt taagtggccc gggttttcccc cccccccct ttgggaaacc tcgttttttt 240
cccgacttaa acaactttga accccctccc ctttttcccc actgggtgat tgggaaaagg 300
gccgcgcccc ctacttttac ataattttgg gccttctttt tgttacttgg ggcgcacctt 360
ttaggggtgc cttagccctg ccctttgcta ctgtttctcc ccctcttgcc tttctttttc 420
cccccccttt tcccc 435

<210> 5832
<211> 364
<212> DNA
<213> Triticum aestivum
<223> Clone ID: uC-tsro9316008c08b1
<400> 5832

tcttttgccc tgaggaagat gtcgctcaac aaggccaaga ggtaccttga ggatgtgttg 60

gcacacaagc aagccatccc ctcccgagg tactgccgtg gtgttggacg cacagccag 120
gtgaagaacc gtcagcccaa tggtcaggga cgctggcctg ccaagtctgc taagttcggt 180
ctggatcttc taaagaacgc tgagagcaat gctgaggatga aaggtcttga tgttgatgct 240
ctctacattt cacacatcca agtgaaccag gccagaagc agcggcgccg gacctaccgt 300
gcccatggac gcatcaacct ctacatgtcc aacctatgcc acattgagct gatcttgctg 360
gaga 364

<210> 5833
<211> 440
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008c09b1

<400> 5833
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tcgaccgcg ctttcacccg cgccgggtga tgatgctgcc cgagggccac ggctgtatc 120
ctggccacgg caggctacat gggatcatcc gctttatcaa cctctccact ggcgccatcg 180
tccgttgccg gctcccgctt ttcagagatc actgcatcct cgactcgggc gatgggtctc 240
tcctcttgca acgggacgaa gacaccgcca tccgcctcct ccaccattc actggagaca 300
ttgcagagct gccgccactt gcgacctca tgcgtcttcc tggagccaag aaaaatgttg 360
aaatggctg gacgtatctt agaaacatcg gtgccacgtc tgtcagtgtt agtgcagctg 420
gagtcacac ttgcatgatt 440

<210> 5834
<211> 493
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008c10b1

<400> 5834
tgtttttgcc cgtttctggc ttgcgggtgac ctgagcgggt acgattcaga ccgctcatc 60
ccccttccaa gcacagaagg cggcacctac cagagcctag atccagtcca gcctcccatc 120
gccccgccat aaaaaactgc attggagatg aagaaggcgt ctagccacgg cgctggcaca 180

gataaccagca aattatctct tgacccccaa acaacattat agcttcagct tatgctcatc 240
taccaaatcg ccacatggaa acatatgaat catcctgcag tgacgttcag cacatgttgc 300
agagtagatg ctgaagttga agctgaattt tggttattca tccaatcttg aaggcaatag 360
catgtggaag agatgggtata aaccgagggg tatgcatgcc atgggctaag caaactcttg 420
aatgaactat aagcctggat caccattgta gtactttgcc ttggtgtcat ttctgggtatt 480
tccatattgg act 493

<210> 5835
<211> 503
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316008d05b1

<400> 5835
tctttcacgc gtccggaact tttttcttct gagaggcatc catgagtgtg cttcaataaa 60
cagaatatat ggattttatg atgaatgcaa gcgtcgcttc aatgtgcggc tatggaaggt 120
cttcaccgac tgttttaact gtctccctgt ggccgctcta attgatgata aaatattatg 180
catgcatggt ggcctttctc ctgatctggg gcacctagat gagataaaaa acttgccccg 240
tcctaccgat gtgccagata caggtctact atgcgatctt ctttgggtctg atccaggaaa 300
agatgtccaa ggggtggggca tgaatgatag gggcgtttca tacacatttg gccatgacaa 360
agttacggag ttccttctaa agcatgatct tgatcttatt tgccgtgccc accagggtgt 420
tgaggatggg tatgaattct ttgctgacag acagctngtt accatatttt cggtctccaa 480
ctattgtggt gaattgataa tgc 503

<210> 5836
<211> 432
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008d11b1

<400> 5836
gcggacgcgt gggcggaacgc gtgggtgtac agtttataat tttgaccgga actccaattg 60
ttggattccc aaagatacaa tggcgtgctc ttgatgagat caattctggt gtatgtgatg 120

ggatgacgta tgaagagata aagaaaatta tgcctgagga atatgagtca cgtaagaagg 180
acaagctgcg ttatcgggtac ccgcgtgggg agtcttacct tgacgtgatt cagaggttgg 240
agcctgttat catcgagctc gaacgccagc gagcaccagt ggttggtata tcccaccagg 300
ccgtattgcg agcgctgtac tcgtattttg cccgcaggcc tttgaggga gtttcagaca 360
ttgtgatgcc actccatacc atattcgaga taaaaatggg ccgtacctgt gtcttgagga 420
ataggtccaa gc 432

<210> 5837
<211> 71
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: uC-tsro9316008d12b1
<400> 5837

cggtcccgaa tttctttttc gacccacgcg ttcttccacg cgtccaagcn ctagaccgca 60
gaggggtttta t 71

<210> 5838
<211> 342
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: uC-tsro9316008e03b1
<400> 5838

ctggcttccc ttgggctgga catacacggc gtcacgttgg caggtggcca accgatgatg 60
cgaggtgggt gtggtgttgt gatgtgtgtg gtgaccacna tgggtggctag cagagctggg 120
tcgcggcttg tccttctgat gtcgaaggtc cgggtgcgcca atggatgtgc ctatgctgat 180
ttctggctgt gacagataag tcggagctgc gggcggcagg gccactgcgg caatgatgac 240
tccatgaggg cggttttcag tggacggtgc tctcccgatg ttgcgttgga ctaggtcgat 300
gcgaattttg caactttctc ctgtgaaact cgttagcaaa at 342

<210> 5839
<211> 537

<212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316008e05b1
 <400> 5839
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 gtgtccgatg ccagcaagaa gaaagccgcg cagaagaagg ccgccgccgc cgccaagagg 120
 ggagccaagt ccagcgccgc tgcctcgctc tcgtcggcgt cgtcagcggc cgataaggcc 180
 gccaatggcg tagcggccct taacttatcc gatcggacat gtaccggggt cctggcttcg 240
 catccgctct cccgtgatat ccacattgag tgcctttcat taacatttca tggacatgac 300
 cttattgtgg attcagaatt ggagcttaac tacgggaggc ggtatggttt gctcggctta 360
 aatggttggtg ggaaatctac ccttctcacc gcaataggct gtagggaact tcccattcct 420
 gacacatgga catacatcat cttactcgtg agaatgaggc ttctgacatg tctgcgctgc 480
 aagcttgtat ctgttgatgat gtaaaaagag tgaagttgga aaggaagctt gaatttt 537

<210> 5840
 <211> 167
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316008e10b1
 <400> 5840
 tatttgcccc cgcagcgctt ggccaccgc gggggatttt taccgtatga cgggtcggac 60
 cccatccgtc cagccggtaa gagtcaccac cccatcccat cgtctgactt cgctttcgaa 120
 gggtcagata tgggtggacct tgctaaccac ccttttgtca tgcagat 167

<210> 5841
 <211> 323
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316008f01b1
 <400> 5841
 tccacgcgtc cggagcagcc ctgacgcgag cgggattatt ggcctgctgg gccgatcat 60
 ggacaagctg cctgggttacc acaagacagg ggaggaggac aaggccgtct ccgatacagg 120

cgagcacaag cccagcgctt gatcgccgcc gtgcccgaga cccgtgaccg gacctcgatt 180
 gaatagctgg cgtgtgttgc gtttgcttta cgtctaagtt ggtgtcaagg tgggaggggt 240
 tgatcgtatt tgaaagtacg gtccctgaag ccccttcaat gaccggtgct tctgtttaaa 300
 tttggtttaa aatgaagtcc tgg 323

<210> 5842
 <211> 323
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316008f02b1

<400> 5842

tttgctgtac ctcccgggcg gcgtgtgctt ggggggcatg gttaggctcg tgtggttcga 60
 gcaggctgtg gcttgtaagg tgctgggcga ctacaactcg ccgcactgcc tgcattcat 120
 gttcgtcaac tggtaacttt gctagtagtt tgtagatact agttcacaaa ctgttctgca 180
 aagaaccttg gtgtgccggc gctaggtcgc ttttgccttg tgtttagagt aaagaccctc 240
 tttgattcag ttttatcatc atcattcatc accctgagga acacgccttg gtgtggtggt 300
 taccacaaaa gggaccgcta cac 323

<210> 5843
 <211> 276
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316008f05b1

<400> 5843

ttggtgtgac cttcttgggt cttgtccttc ttggtttatt gttcttgggtg tgtgtgcgtg 60
 tgttcgtgcc ggggtgtgag gtgtgggcgc gtgcgtgcgt gtatgtatgg gtcgcggtgg 120
 tgtgggaggt gtctagtacg tgcgtgcgcc ggcgtgccat tctttgtgtt ggtgatcatg 180
 tacttactct cttgttcttg ctatgaatga gaccatttat ttgaaaaaaaa aaaaaaaaaa 240
 ataaaaaaaa aaaaaaaaaa aaaagaaatt gataac 276

<210> 5844
 <211> 513

<212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316008f07b1

 <400> 5844

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 cccatcctcc tttccagaaa ccaaccagaa aatggcggtc agaggctact gccatcctca 120
 cccttcttcc tccatggcca ccaccggccc gagattcggc gcgaggaggc cggcggcagc 180
 cctgagcttc agagcctctg cagcccatgg atgcaaccag ccatacctgc acctctcctt 240
 tgctgcacca accagcaaca aggtgttcga ggaccaggtg agagggatcg tgtgctacag 300
 ggacgacaag ggagagctcg tctgcgaggg ctacgacgag ggcccagggc tcggaatgcg 360
 gctgccggag aaggcctgct tcccggtggc tgtgggagtc caggtcaccg atttcatccg 420
 nctcgcgacg cttcggttct tcgaggacgg cgccgacgac ggtcttctgc gcaagaacga 480
 tcagaagtgg cagctctgaa gtctgaactg atc 513

<210> 5845
 <211> 121
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316008f09b1

 <400> 5845

 ccccaaccta gaacgcaata ccttccactt aatcctactt acatattcca acccacaatt 60
 tctcgctcca gaggccccct tacgctcatc ccctaccatg actgtggtgt ccgttactac 120
 c 121

<210> 5846
 <211> 172
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316008g01b1

 <400> 5846

 tggtaaagat ggagaaaatg ttgcagagag ggcagttctg atccagaatg gagcatcgac 60

atgtcttatac tcattttcatc aacttaacac acgtacatgc gtctactaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaag aaaaaaaaaa aaaaaaaaaa aaaaaatgaa aa 172

<210> 5847
 <211> 441
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316008g03b1

<400> 5847
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 cgtgttccac gtcccctgcg tcgacacgtg gtcgcgctcc agctcgtcgt gcccggtctg 120
 ccgtgccctg gtggagccgc caccgtcgcc ggccgcgcca gcctgggtgc aggagaagca 180
 gggcctggag aaggagtgtg ctgcaagtgg gagctcggcg ccgccgtgtg ggctcggcgc 240
 gtcgctgatg aggatgctga acagggagag gccgctggcg cggaggctga cgcaaggatga 300
 ccacgcgcac ccgatggaaa tgcattgtcga ggacctggag agtcagcacc cccagcagta 360
 tcaactgtgtg gataccaaaa agtggtttttt tttgcgttgt gttttttttt ggggggttccc 420
 atttggttgt cgaatggaaa a 441

<210> 5848
 <211> 460
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316008g05b1

<400> 5848
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 tcagtctcca gagacagatg ctaagatggc caagagatat gttgatcagg gtttcatctt 120
 caggctgcta gatctcttcg actcagagga tcctagggaa agggagtatt tgaagacaat 180
 acttcacagg atatattgga agttcatggg gcacctcca ttcacagga aggcaat:taa 240
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 agagattctg ggcagtataa tcaatgggtt tgctttgcct ctaaggaaga gcataaatcg 360
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460

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<211> 91

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008h02b1

<400> 5849

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ccgctgacta tcgagtgatt ctgcaaggaa c 91

<210> 5850

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<212> DNA

<213> Triticum aestivum

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<400> 5850

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taccttgcaa ggaagctggc tggatgatccc aacatccact tcgttgaagc agtggccctt 180

aagcccccg gaaagtacatt cgacctggcc atgcaacaac agcacgaggc tgagc 235

<210> 5851

<211> 476

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008h04b1

<400> 5851

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agctcggaga gatcgtcacc accatcccca caatcgggtt taatgtcgaa actgtagagt 120

acaagaacat tagtttcacc gtttgggatg tcgggggtca ggacaagatc aggccctgt 180

ggaggcacta cttccagaac acccagggtc tcatttttgt cgtggacagc aatgacagag 240

agcgtgttgt tgaggcaaga gatgagcttc accggatgct gaatgaggat gagctgcgtg 300

atgctgtgct gctggtgttt gccacaagc aagatcttcc taatgccatg aacgctgctg 360
 aaatcactga caagcttggc ctgcattctc tgcgccagcg aacttggtac atccagagca 420
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 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316008h05b1
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 tggcgctcgc cgggaggctc cgggaggcgg ctactgtgtc ggaatgaggt gccgacgcgc 240
 agccagaggc ctgcccctta cttggctctg gaaagcaggg gtgatcgagt ggctcgcga 300
 aataaaacgc gtcgagtcct cagacttcag ggggtgtctc gagcatcact gtttcgcaat 360
 aagaacgctc ctctctcagc agcttttgga gaccaactga 400

<210> 5853
 <211> 420
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316008h06b1
 <400> 5853

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 cggcggcgct cgccgggagg ctccgggagg cggctacggt gtcggcatca ggtgccgacg 240
 cgcagcctga ggctgcccc ttacttggtc ctggaaagca ggggtgatcg agtggcctcg 300
 tcgaataaaa cgtgtcgagt ctccagtctt caggggggtg ctgtagcata ctgtttcgca 360
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<210> 5854
 <211> 437
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316010a01b1

<400> 5854

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acaggggcca gatgggcttt atcgacgggt gcctagtgtg gctgtgctgg tgatacatct 240
gcgagatgtg gtaaaactaa ccggccccca actgaaaggt ttctggcaca aggcctcttt 300
gctatcgta ccacaaagag cgaatgcgta tacagagaga gaattttcaa ataatttcaa 360
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ttcccccta cctgtgc 437
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<210> 5855
 <211> 420
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316010a02b1

<400> 5855

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gcggatgcgg agcaaggcca agcggtagcg atgaaggggg gccggggccag caccaaatcc 180
atgggctaga cgggcttcat ggtggggggc ctggccgtgc tattctgctg gtggatctgc 240
gagaggagct gcgactaacc gctccgtaac agagagggtta ctggcacaag gcctgggtgc 300
tatcgtaacc acgaggagcg tatgcgtata cagaaagcga attgctcata atttcagtgc 360
ccgtagcttt aaggcttaca tatagacgtc taacgagatg cagcatgat caggactgta 420
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<210> 5856
 <211> 462

<212> DNA
 <213> *Triticum aestivum*
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 <400> 5856
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 agtcaggggct cttcgtgggc atcaacaagg gccacgtcgt caccaagcgc gagctgccgc 180
 ctgcgccgtc cgaccgtaag gggaaaggta caaagagggt gcattttgtc aggaacttga 240
 tcaggggaggt tgctggattt gctccctatg agaagcgtat cactgagctt cttaagggtg 300
 gaaaggacaa gcgtgcactc aaggctcgcca agagaaagct tgggtactcac aagagagcaa 360
 agaagaagag agaggagatg tcaagtgttc ttaggaagat gaggtctgct ggtgggtggg 420
 ctggtgacaa gatgaaatag aacttggcta gctggtgaat tt 462

<210> 5857
 <211> 279
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316010a07b1
 <400> 5857
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 gttgagagag tgtcaatggc tctcgcgtct gggcggtgga gctgggagga gtagatcctt 180
 actctgtacg tgaacaggac ggcgggttga tttgttattt gcgtacaatt acaataatgg 240
 aatgccaatg atgatgggtg agcgagcata ctagaacac 279

<210> 5858
 <211> 494
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: uC-tsro9316010a08b1
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tttgggtgttt gc

252

<210> 5861

<211> 281

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010b06b1

<400> 5861

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agtactacta gctagcctag attagggttt gtgtagacaa gaaggagat caatggccga 120

gacggccaac cgttgtttct gggggagtcc atgatgaaac accaactaca acaacctcta 180

cgatggcttc atgcacaact gaaagatcct cgacgccaag atcatcaaca acgcgcaaga 240

cggggagggg ccgtcagatc tgatagagga cgttcgatac a 281

<210> 5862

<211> 422

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010c05b1

<400> 5862

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gatcaagcag aagctggcca agaagcagcg ccagaaccgc cccatcccct actggatccg 120

catgaggacc gacaacacca tcaggtacaa cgccaagcgc aggcactggc gccgcaccaa 180

gctcggattc taagccgggg atgacgatga tgacgcccgt tgccgccgac gggagaaggg 240

tctagggtac ctagggttta tggcgtctcg ttgtttttgc aagctagcat gtgactccgg 300

gatgcctggt ttaagattaa gatttcgctt gttttgagag atattattat ttactgcttt 360

gagcctacct gggataccat catattttgc tgattatgga acagctttta ttctgcttaa 420

gc 422

<210> 5863

<211> 377

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010c06b1

<400> 5863

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accaagacca gatctagtc agggtttcac acgggatggt agctccggct caaacgacca 180
cgaagatgga aacagttttg atgaccatcc cacagatgat ggggaccgta gttcatgcag 240
cgatggccgt aagacagagc actctgaatc agggccacct aattcagatg gactggtacc 300
aacaagcata gtgctaggca tggtcagatc agctctccat gtttccctat gtgcgtgctc 360
atgatgcatc attacta 377

<210> 5864

<211> 442

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010d03b1

<400> 5864

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acccaatgg cccaagggtac tcccgtggct caaggtgccc ccatgggtca agcccctcct 180
gctccggcac aaagcaccga tgaggtaaag ccatcggagg ctacaacagc tcctgacaat 240
gtggaggcta cagcagctac cagcaatgcc gaagctactg cagcccctgg tactgcgga 300
gtacagaag ctccggttcc agaccaaca agtagcagtc ctgacgctgc tgatgctcca 360
gcttcagctc ctgctccagc agctgattcc agtggcactg atgcacttgc tgttactccc 420
agtgatttta caaatgatgc ac 442

<210> 5865

<211> 422

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010d04b1

<400> 5865

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 gcacaacccg ggtggcaggg agaggtacga gagggagtgc gaggccctag ccaaggcgcg 180
 cgggttcgcc gccatgaaga ccacttacat ctacgccaat gcatgggcca tcgagttcac 240
 taagtagatg atgaatgaca gcgtccaccc atctgatgca tccacttgat gtgtactttc 300
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 at 422

<210> 5866
 <211> 488
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316010d07b1
 <400> 5866

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 cgcagttcaa ccacggccag ggccaggcgc tgcagtacgc cgtcgccaac tccttcctcg 180
 ccgcgctcta cgccgactac atggagtccg tcaacgtccc cggctgggtac tgcggcccca 240
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 gggacaaccc gatgaagatg agctacgtgg tggggtacgg caagaagtac ccgaagcggc 360
 tgcaccaccg cggggcggtc acgcccaaga acgggatcaa gtactcgtgc accggcggca 420
 acaagtggcg cgactccaag aaggccgacc ctacagtgtc cgtcggcgcc atggtacgcg 480
 gtccggac 488

<210> 5867
 <211> 350
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316010d08b1
 <400> 5867

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 gcagcagcaa caaggagaag aggcctccgt tcaagagagg ccagctcaag ctgcagatcg 180
 ccaggactct cggcagcctc gtggtgccgg gcgccaagag cagcttcagc ttcagaagat 240
 gatcacctga gcagccactc aatcagggca agcagcattt tctcagccaa tctaccagta 300
 tcggatggtc tgggtgcttga tgtataccgg gattgtgcaa gttgaacaag 350

<210> 5868
 <211> 468
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316010e01b1
 <400> 5868

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 agttcagaat ctaggccttc tgggtgtaatg gaggtgcagc ttgagcctct caccagatga 180
 gtagtagaat agcgtagatc aatctgtatc tcccagtgtc agatacacac acacacacac 240
 accaagtcct gttttcagtc atacaacaga aacagatggg gtccacaagc acggtgactt 300
 tccgctcaga aagaaaattg aattttctcat gcttgtttct tctaccatgg cagaatggta 360
 ccaggctaca taggatcttc aaattatgcc tttgatttct tgcgtcacac tgttcagaat 420
 tgatagtgtg catttttggtt ttttacaata gacaggcaca attttgta 468

<210> 5869
 <211> 436
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316010e04b1
 <400> 5869

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cgactgtgct cgtgggtgctc gctctgatcc caccctgtgct tccacaggtg taccagctcc 240
 tctctgtata ttctttgatt ttttttctgt tcagttcatc tttcatgggtt aattctttgc 300
 aacaatttga taagatgctg aaatcaaagg tgtggcctct atttgatgag ccagacacaa 360
 ggaggagtat gggctctgcat gtacatataa gaagaagatg gcttgagggtg aattgtgtat 420
 gtttttcagtt gcgtcg 436

<210> 5870
 <211> 462
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316010e09b1
 <400> 5870

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 ctgatctacc atatgcttga tgatggggga ataagagtgc ataaaactgt cgagtgtgtt 360
 ggttttcaag gatgatatac gttagcctgc atggcagtag tcgtccgatg aattatatta 420
 ttttcgtatt ttgagctgca aaaatatatt tagtggtttt tg 462

<210> 5871
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: uC-tsro9316010e10b1
 <400> 5871

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 ccaccgggag gagagggcag caggcggagg aggccacacc tacctaccta tctatctatc 180

tgtctgtcta agccgccggc atggactcgg agcactggat ctgcgcctg gccgtcgtca 240
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<210> 5872
 <211> 531
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316010e12b1
 <400> 5872

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 ggggtgcctg gcggcgctgc gctgctgctg gatctgcgag atgtgctgcg actaaccggc 240
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 gcgtatacag agagagaatt gttcttaatt tcagtgcctg ttcgtttagg ttctacatat 360
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<210> 5873
 <211> 189
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316010f01b1
 <400> 5873

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 ggacgtggcc atcaccgttc aggcgcccgg agcgggtcccc gcggtaacgc tccaagacct 180

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189

<210> 5874
<211> 306
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010f06b1

<400> 5874

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gcaactgagt taatgttagt tccaagagtt gttcatggtc ctttgtaaga tatccaaaag 180
tctgtgtctg tattggtcga tcatagtgtt ataattcgtg aaataaaaata tatcagtggg 240
tgctttaaaa aaaaaaaaaa aaagaaactg taaacacaaa gactaaaaat gaaaatataa 300
ataatg 306

<210> 5875
<211> 544
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010f08b1

<400> 5875

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accggccgcc cgtgaaggaa ggaggcgatc ggccatgggg aagatgtgct gcagccagga 180
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gcaggcaagt ggctgggtgct gtggtaggcg tttgtttggt tgggtgttga atttctgac 420
tgatgcgtgt tgggtcggag aataatctca atttctgttg aattcgatcg gacctgaaag 480
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TTTT 544

<210> 5876
 <211> 331
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316010f12b1

<400> 5876

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 attggacacc ttatttaagc gaactgataa accttagtct gaattgagct gctcctgggt 240
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<210> 5877
 <211> 210
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316010g01b1

<400> 5877

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 gaaaaaaaaa aaaaaaaaaa aaaaaaata aaaaaaaaaa aaaaaaaaaa ccaaaaaaaa 180
 attggggcgg gggctctaca ggttcaaagt 210

<210> 5878
 <211> 295
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: uC-tsro9316010g03b1

<400> 5878

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gggtgcatctg gtgtgttgtg ccaatctata tcccactacg attgattgtt ttgagcatta 180
 ttagttggga atacatgcgg cgtgtnaaaa aaaaaaaaaa aaaaaaaaaa aatactaaaa 240
 aaaaaataa aaaaagaaat tagaaaaaaa aaaaaataa aaataaaaaat aatcg 295

<210> 5879
 <211> 200
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316010g05b1
 <400> 5879

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 acatatttta ggactaaaaa aaaaaaaga aacaaaaaaa aaggaaaaaa aaaagaacaa 180
 taaaaaaaaa aatataaaaaa 200

<210> 5880
 <211> 311
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316010g07b1
 <400> 5880

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 cagtgcgcca tcgatcatgt tctgaatgga gcacatgtg tttaccagtt gtggcaggat 180
 aaggtcctgg acgtgtgtaa ttcagaacag acttcccgtt gcttttccgg aggtgcatca 240
 gaccgttcaa gcttctgttg ttgtgtgttt ggtgtgataa tagctcaagc ttccaaacctt 300
 tcccgggttg g 311

<210> 5881
 <211> 461
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316010g08b1

<400> 5881

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gggaaaatag aaccctcaag aaaagggaaa aatggaagaa cctcgcctaa tcatcagtaa 180
ccaaatgctt caatcgaca agacggagag gccaaagcca ggctctcata aagggtcac 240
ggccgactca cgatcagagg tggtcgccgt tcatgagcgc ggtggccttg gcgccgcacg 300
agacggcctt cttgggcacc ttaccgacgc ggtcgatggc cttggcgaag atgaccccca 360
tccccatgtg gaggtgcggc tcgatgtggc agtggaaacgc ccacaccccg gggttgtccg 420
tgacgaaccg tagcgccgtt cactcggaca ggaagatcac c 461

<210> 5882

<211> 477

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316010h02b1

<400> 5882

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acagtataa agcggggact cttagacctg gcatccaaga agataatgga atgtctgcac 120
ttccaacacc caatgaaatg tttgtctctc cagcaccgca acaatatcgt ggctccattt 180
cctcgaggat gaagaggcgc cctttgaatg gttcatccca gggcagtcgc cgtacatgat 240
ttcctcggga atttaggtag aactgtgttc ccgattgaa gaaaaggaag aggatgaatc 300
gctagctcac tgcagctatt cagaaaacta tgtctacngt ttactcagct tagcttaaaa 360
ggttctgttg ctattgttga tgtatattgn tgttcctttt agcaaggatg cgcacgcaat 420
cataaaaaaa cgaacttctg ttacaagaa cgatcatggt ttccacgact gttgaat: 477

<210> 5883

<211> 216

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010h05b1

<400> 5883
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 actcggagga gaagtcggcg tcggcgtcgg cgtcgtcctc ctctgtggctc gggctggcca 120
 gcaccgacgg cgccttcgcc ctctgatctg caccggacgga cggagcaaga cggcttgccc 180
 gcttcaagag atcgtttgta gacacttga agcggg 216

<210> 5884
 <211> 465
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316010h06b1

<400> 5884
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 agggggggggc cgtttaaaag aacaaaaatt aacttcccc ggcatgcaaa gtaaaaattt 240
 ttttataggg caacaaaaat aaaataaatt gcccgttgat aaaaaacctt aaaatgggaa 300
 aaaccctggc ttacaaaaat taaaactctt taaaaaaaat ccccttttaa caaatgggt 360
 aaaaaaaaaa aaggccctaa ccaatcgctt taaaaaaaaa aggcaaccct aaatggcaaa 420
 tggaaccccc cttaaccgg caaaaaagcg cgggggggtgg ggggg 465

<210> 5885
 <211> 259
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: uC-tsro9316010h08b1

<400> 5885
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 agtgctatac tgtgattggg gtaatattat atggtcatat tgtgattgga ggaatgtaat 120
 aaactagatt ggtacatcgg tgatttggat gatatatgaa tatatttaaa atgtgttctc 180
 tgattgggtga aaacaactaa accgagatgt cagaactaac ggaaaaaaaa gaagaactaa 240

aactgggtgt ccgatatat

259

<210> 5886
<211> 405
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014a01b1

<400> 5886

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cagaagaact ccttcgccgt tacctctttc cttagtgttg tcttactata tttcctgcaa 120
agattgggtg caaccctgag ttcatatgat gtatggctac gaggcacgag tactcgtagc 180
ttctaagggtc cctgtctgcc accgtagtcc agttccatat tctttcgagt gtgataatgt 240
caattttgat ttcattgggt gtgtaatcag ttgtaaata tagttatctc ggctctgttg 300
cacattgtct ctttccccgc cttggactcc tgatgtgtaa ttcaccaatt aataaacttg 360
caatacattt cccctttaat cagctggaaa aatataaaag gggggg 405

<210> 5887
<211> 356
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014a02b1

<400> 5887

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gaaactaact tgggacttaa acgccactac caagggatgg actccctgtg aaactggccc 120
attctttctg tggctccacg ttttgatgga ttataagcac gtctgctcca ttggataaca 180
gggtctagtg ctcggaata acaatgtctg cagtgtacga ctcagtgttc ttcctaaatg 240
acactaccat gcaattgggt ggttctcatg ccatggctag ctgcagatac tatactctctg 300
gtttgttcat gtgcacgcaa acgggttggt tcagcttcc taaatggctta ctgttg 356

<210> 5888
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014a03b1

<400> 5888

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tcaacgccac taccaatgga agtactccgt atgaaatttg tccatccttt ctgtgggttc 120
atgttttcat ggattataaa catgtttgtt caattggaaa cagggtatag tgtttgggaa 180
taacaatttc tgcagtgtac gaattagtgt tctttctaaa tgacactctc atgcaatagt 240
ctgtctctca tgccattgct cgtttcagat attatatctc tgttatgttc atttgtacgc 300
aaatggcttt ttacagattc ctttaattctt gactgttgat aagcatatgc tctgatccgt 360
gttctctctgc tgtgattttg cccccaggta a 391

<210> 5889

<211> 356

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014a07b1

<400> 5889

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gcctgtgaat gaagtgttg attacagttc caattgctcg tcttaatttt tgaataaata 120
tatagttgtc taaaaagctc agtaaaatct tccgaatcga gaactcatca tttgtgtagc 180
ccctctgtat atttaaaact catggatggc cccgtgggtg aaatgtcaga tatgtgttta 240
ttatttagcc tgccctgtag aaactttatt cccgagttaa atatcatcat acacctttg 300
cccatatttt tgtaccatta ttgatattga tgcgataacc atttcttctg gttttc 356

<210> 5890

<211> 259

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014a10b1

<400> 5890

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ccatcatcct gccgcgctc ggcgtcttct tcaagttcgc ctgcgggatc gagttctgga 120

tctgcttgct gctcaccttc ttcggttacc tacctggcat catttacgcc gtctgggtca 180
 tcaccaagta ggactgcatg caggaggggc ttctctgcct ctgccgctag gtgacccatg 240
 gcgaacttgt tctgtgtgt 259

<210> 5891
 <211> 378
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316014b03b1
 <400> 5891

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 cgcgcgggcg cgagcgccgc agtaaccgac gagcgagatg ggttcgccga ccgtaagaaa 120
 gagcgccgcy tcagccgctg gccgcctcca ctccaagagg agccgggggt gcacacgagc 180
 cgcgctagga agccccacgc agaggccgaa ggccatggcc gtgtgtagat cttcccgtg 240
 ctgcatgccg gaaggcagcc gaaggccaag gcctgcatgc ccgaagacca gccgtcggcg 300
 aaaggatcaa aaccggaagg cagcaccctg aacctcgtag gcagcaatta gatcaaggcc 360
 tcggccgccc cctgactc 378

<210> 5892
 <211> 358
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316014b05b1
 <400> 5892

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 cagagaagag tacaccaccg ggccggaacc tgctgccgtg aaccgtcgtg gcggcacgga 120
 aggagcgccg ctacggattg gggaggagcg ccgttgccagg cctagggaga gcgccgtccg 180
 gaccaagctc cctgctccac cgatcaagga ctcttgattc cggccgcctg cagcacatca 240
 ggccatcagc taacagaatg ggagcactga gcaaagcttg cgggatgcaa aaaacagaga 300
 ggccgttgat ttgcttatat ctggtcctgc tattaagtta ctgaagcaag acaccctt 358

<210> 5893

<211> 352
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316014b06b1

 <400> 5893

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 ccagggtcgt gctccccgac ggcgggctca ggctggtcag gccccggcg acggcggcg 180
 agctcatgct cgaggcgccg ggccatttcc tgaccgacgc gcgcgcgctg caggccgggc 240
 gccggatcga ggcgctcgcg gctgacgacg acctcgagct cgggggcgtc tacgccgct 300
 tccccatgaa ggggctcggc tccaaggccg cgccgcgcga cgtggcgcgct ct 352

<210> 5894
 <211> 159
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316014b08b1

 <400> 5894

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 tcaaactcag ccgctctttc gctgagtaat gtacatttgc ctgcgccatgg caacttgtgg 120
 gctctgctgc tgctttattg aagatgatcg caattttac 159

<210> 5895
 <211> 364
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316014b09b1

 <400> 5895

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 agcttcggcg gcatgatctt cgtgctcgtc tactgcaccg ccggcatctc cggcgggcac 120
 ataaaccccg cgggcacctt ggggctgtca ctggccagga agctgtcgt caccagggcg 180
 gcggctctaca tggatgatgca atggctgggg cccatatgcg gtgctggggg tgtcaagggg 240

gtccagacca cgctgtacca gggcaacggc ggctgcgcca acttcgtcag gccggggtac 300
 accaaggggg accggcttgg ggcctccatt ggtggggacc ctcgggctga ggtccaccgg 360
 tttt 364

<210> 5896
 <211> 188
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316014b11b1
 <400> 5896

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 cttgtgcac acccctcaat caacaagtga agtaaataaa agtggtggtt tatgtgcaca 120
 agaacagaac ttccccacag aagaacaaaa ctgaaaaaga acccagtga agaagaaaaa 180
 cttaaggt 188

<210> 5897
 <211> 200
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316014c02b1
 <400> 5897

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 tccgcctatg ctctgcccatt ggtgtccttg cgtgtatgtg tgtgcgcatg tctccctgta 120
 attgcttcat ctatctccac tatggatgga gtgatgaata tgctagaatg aaagatttac 180
 ctaattaact agtcctacat 200

<210> 5898
 <211> 148
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: uC-tsro9316014c07b1
 <400> 5898

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agcagctgac gccgaggagg tcgtggcctt gcaatgggca gagcaatggc ccttctgagg 120
cacagtcgct ctgtggagga gcccagga 148

<210> 5899
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014c09b1

<400> 5899

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tcgccgaccg actcgactcg gccggcgatg gggaggacgc tggacgtgct gctggggccga 120
accaccaagc agacggcgcg cctcaagtcc ctccctgcacc tcgccacgaa gcggatcgcc 180
gtggtgcggg cgacccggga ggtgcgggtgc gcgcaggcgc ggggggacgt ggagcagctg 240
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gacacgctcg acgccctcct cctgctcgac gcctactgcg cgctcctcgc cgaccgctcc 360
gcgctgctcg acgacgcgca ccggggctgc cccgacgagc tcggggaggc cgcggcggag 420
ctctgcta 428

<210> 5900
<211> 384
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014c10b1

<400> 5900

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tggaccttat gccctattcg ctggcaaaga cgccagcaga gctctagcca agatgtcttt 120
cgagccccag gacctgaacg gtgatactc tggcctcggg ccgtttgagc tcgacgcct 180
gcaagactgg gaatacaagt tcatgagcaa atatgtgaag gtcggcacca tcaagaaggc 240
agcttccgca gaagacggca ccacaagcac atccccagaa acaaatgaaa cagtcacgcg 300
cgaggcagag accgagaagg caccgccac ggagcacaag ccgagggagg tgagcttcga 360
ggaggttaaa gagaaggaag ccac 384

<210> 5901
 <211> 350
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316014d01b1

 <400> 5901

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 cgggtggcggc ggcagcggcg gcggtgacca gttagggctcg gcggccaaag gagccggcga 120
 aggagcagag tggggcgtgg gcggcactgc tgaaaaagcg ggggccggtg ggagccaggc 180
 agtccagggc gccggtcaag gtgctggttag ctcttactcc ggcggcggcg gcggccgtcg 240
 ttgagcctgc cgtgtaccgc gggatcatcg ccgccgtgac tgaggaatga taccacaacca 300
 tgccactgcg aataaaatca agctgcttaa ttcacaataa aaaaaataaa 350

<210> 5902
 <211> 154
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316014d04b1

 <400> 5902

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 cgaccacgcg gccgcccacg cggccgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaagcaacc aaaaaaaaaa acaaaaggca ccac 154

<210> 5903
 <211> 172
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: uC-tsro9316014d07b1

 <400> 5903

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 cgctcgctct gctgactttc ttatcgcttg ctggtgctga acctgctgat ttccatgtgc 120
 tgtgctaata aagcaacata gtcctcggat gctgtggtaa aaaaaataaa aa 172

<210> 5904
 <211> 417
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsro9316014d09b1

 <400> 5904

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 acatagaagc ttacaagcga agcatgcgac cgagctaata gacatggcac cgcttgcac 120
 cgccgtctcc ttctccccc gcccatcgac gggaacgact ttccggcccc gcgccgcttc 180
 cgctcttgcc tccgtgggag ccgggagggt ccgcgcggcg gtagccccc agggag:ga 240
 gtgggtgggag cactgctcg gctgggtctg gcgggaggac tacatcgagg ccgcgc:cacc 300
 ggcccgaggc atggcgatg ctatggcggc ggaggaggag gagaaggcgg tgaggctcgtt 360
 ccgtgggagc cctgacggag gagaaggcgc ggcaactgcg ggccgcgatg gtggaga 417

<210> 5905
 <211> 352
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsro9316014d12b1

 <400> 5905

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 ctgaggtagc caagaatcgg caagtcacaa aacggcaatg gtgaactccg gcaggagtcc 180
 acccccttt tacccttttc tctcattca gttgtatcag gtggaagtcg aataatcgga 240
 agtctctgtg tgtgatgaat caatggatgc ttcaagtcca tgttttggtt ttctcttcct 300
 ttattatggg cactctggaa acactactat aaatgggtga tgttcatttt gc 352

<210> 5906
 <211> 182
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: uC-tsro9316014e03b1

<400> 5906

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caagaggtgc tgcacatgatc gctcgctcgc tgctgaaccg aactggggcg acgacgggcc 180
cc 182

<210> 5907

<211> 299

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014e05b1

<400> 5907

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ctcgcctaag agggcttgcg ttcgtcatgg ttacctccat actttacaga attattacag 180
gtgggatttg gagttgctgt tgctgctgta ttcttcatct tgctgctcgt cgtagtgtgt 240
gcattccaca ccaggttttg ctttcaacaa acaaataaat cactgagggg ttcttctct 299

<210> 5908

<211> 504

<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014e06b1

<400> 5908

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caggtgctgc tggtaggcgtc ggcgggtggcg gcgttctctg tcgggtacgc gatggcgcac 180
ttccagctga tgctgctcgt ctacgccggc ggggttgtcc tcacggcgct cgtcacgcgc 240
cccaactggc cgttctttaa ccggcaccgc ctcaagtggc tcgacgccgc cgaggctgat 300
cgccaccccc gcccgcatg cagcagcgca ccagcgacga ccggggggtaa gaagaagacc 360
ggggagaaca aggagtcatg ttacttatgg cccatgtggt gcagacatgt tttatgatta 420